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# DESCRIPTIVE CATALOG

## of *Vegetables*



# MICHAEL-LEONARD CO.

*Creators of Famous Sweet Corns*

SIoux CITY 6, IOWA

CHICAGO 16, ILL.



One of the most healthful and profitable recreations is home gardening, an inexpensive hobby which will produce an abundant supply of fresh vegetables for the table and home freezer.

Food costs have reached an all time high and with a little effort your cost of living can be reduced and enjoyment of good living increased.

This reference book will help you in selecting the proper varieties of seeds which is the first step in planning a successful garden.

Since the printing of our last Seed Manual a great number of new and important varieties of vegetables have come into general use. Seed breeders have been working on many kinds of vegetables, and many new and better varieties have been developed. In recent years there has been a greater advance in the development of Sweet Corn than any other kind of vegetable, and we are proud of our share in this accomplishment as we have taken a leading part in the development of new and better hybrids, having a complete range of maturities of outstanding varieties for Canner, Freezer, Market and Home Gardener. We sincerely believe you will do better with our Sweet Corns than with any other brand and have a definite program to make this continue to be so.

We hope you will find the information helpful in selling more vegetable seed, and we want you to feel that our research department, sales personnel and the whole backlog of experience of more than sixty years in the seed business are at your service.

## Michael-Leonard Company

General offices at Sioux City, Iowa, and Chicago, Ill.,  
with branches in the following States:

Idaho

Oregon

Illinois

Washington

Iowa

Wyoming

Montana

## ARTICHOKE

### LARGE GREEN GLOBE

Used for home garden planting and shipping; heads large, slightly elongated; scales thick at base. Quite different from Jerusalem Artichoke, which is grown for its tuberous root.

## ASPARAGUS SEED

### MARY WASHINGTON

The latest development of rust resistant asparagus; larger than the original Washington, with very tight tips of fine quality.

## BEANS — BUSH GREEN PODDED VARIETIES

**CULTURE.** Beans are easily frost killed, so plant them at Corn planting time, on light, dry land. Cold, wet weather will rot the seed in the ground and fresh manure causes a rank growth of vine with a lack of pods. Hand cultivated beans can be drilled in poor soil as close as 18 inches, but in rich soil with machine cultivation, 30 inches is required. Drill 6 beans to the foot and cover one inch deep, or plant 4 beans to the hill, 18 by 24 inches apart. Two pounds of seed should plant 200 feet and 60 pounds an acre. Plant every other week for a succession up until August first in the latitude of Chicago. Frequently your later plantings will turn out the best. Shallow cultivation only should be given at all times and do not cultivate when the plant is in bloom as the plant will drop its blossoms; never cultivate when wet, as it causes rust. Pick beans before the bulge of seed appears and pick them clean to continue the plants bearing. Number of days is from planting to first picking. Beans respond well to complete commercial fertilizer. Apply at planting time and again when they bloom.

### BOUNTIFUL

50 Days

Vine light green, 18 inch upright, strong growing bush. Stringless at all stages, somewhat inclined to be fibrous as pod ages. Exceptional cropper. Pod light green, average 7 inches long by ½ inch wide, thin and flat. Very meaty. Excellent market garden and shipping variety; also good for home garden when picked early. Seed pale yellow, medium large, kidney shape.

### BROAD WINDSOR, FAVA OR HORSE BEAN

70 Days

Plants dark green, 20 to 24 inches, tree type of growth with scant foliage. Pod shiny dark green, 4 inches long, thick and broad. Used as a green shell. Seed large, flat, odd shaped, dark yellowish color with a black eye.

### BURPEE'S STRINGLESS GREEN POD

50 Days

Plants large, very productive. Pods curved, round, 5½ to 6 inches long; medium green, meaty, stringless and of excellent quality. One of the best varieties for canning cut beans and very popular with home gardeners. Seeds dark brown.

### COMMODORE (DWARF KENTUCKY WONDER)

63 Days

Bush is 16 to 18 inches tall, very prolific. Pods are round, slightly curved and twisted; refined round podded Kentucky Wonder type; tender, brittle, almost stringless and fiberless. Seed is mahogany red, slender kidney shape.

### CONTENDER

49 Days

Pod—5½" x ⅞", semi-round. Flesh thick, fiberless and stringless, medium dark green. Plant—14" to 16", vigorous, mosaic resistant, very prolific, pods borne low. Seed—Medium large, long oval, excellent for green shelled as well as snap beans.

### DIXIE WHITE

52 Days

Vines light green, 18 inches high. Pods light green, 4 inches long, round and straight; stringless when young. A most wonderful yielder. Excellent as a dry shell bean; flavor equal or better than Navy.

### FULL MEASURE

54 Days

An excellent market gardeners' and canners' bean. Plants hardy, branching freely and bearing a good crop of pods. Pods 6 to 6½ inches; round, straight, deep green and strictly stringless. Seeds brown mottled with yellow.



**BEANS — Bush Green Podded Varieties — Continued****GIANT STRINGLESS GREEN POD**

53 Days

An excellent bean for the market gardener and shipper; and widely used for canning. Very heavy, stocky vine. Pods round, 6 to 6½ inches long, of exceptionally fine quality, stringless throughout entire growth. Seed deep yellow.

**HORTICULTURAL, DWARF**

54 Days

Vine very productive, compact, upright, with large leaves. Pods 4 to 5 inches long, wide, thick, stringless with splashes of bright red on a yellowish ground. Seed large, oval, plump and nearly covered with splashes of bright red.

**HORTICULTURAL, TAYLOR**

55 Days

A productive strain with strings, used mostly for green shelled beans which are ready in 62 to 65 days. Vine—medium height and vigorous. Pods—5½ to 6½ inches long, semi-round, stringy, light green in snap stage; turning white with splashes of crimson as it matures. Seed—color, buff with irregular spots of maroon, brown eye-ring, full oval shape, 1,090 per pound.

**LANDRETH'S STRINGLESS GREEN POD**

52 Days

An individual plant selection out of Burpee's Stringless Green Pod. Vine is more erect with darker foliage and larger, slimmer pods which stay greener than the original type. Pods 6 to 8 inches long, round, slightly curved and absolutely stringless.

**LONGREEN**

53 Days

Plants 16 to 18 inches. Erect, medium dark green. Pods medium dark green, 6½ to 7 inches, smooth, round, straight, stringless and tender. Seeds buff mottled with purple.

**PLENTIFUL**

52 Days

Classified as a black seeded Bountiful but matures about three days later than Bountiful. Pods flat, light green, quite straight, stringless. Seeds black.

**MOSAIC RESISTANT STRINGLESS REFUGEE**

64 Days

Resistant to common bean mosaic. Plant of Refugee type and strongly prolific. Pods 5½ inches long, straight, round, silver green, stringless, without fiber; seed purple-blue splashed with buff. Excellent canners' bean.

**STREAMLINER**

50 Days

Pods flat to thick flat, straight to very slightly curved, stringless and fiberless, tender until full maturity, medium green. Bush of medium size and prolific. Seeds medium size, oval and white.

**SULPHUR OR BRIMSTONE**

54 Days

Vines are similar in type to Burpee's Stringless Green Pod. Pods are semi-round to round, straight to slightly curved, stringy, fairly free from fiber, light green, beans prominent in pods. Seeds are small, thick, short oval, bright sulphury yellow with faint greenish or brownish eyespot.

**TENDERGREEN**

53 Days

Vine medium light, 18-inch bush, upright with good leaf growth. Pods light green, 6 inch average, straight, round, crisp, meaty, stringless and without fiber. Very fine flavor. One of the best all around varieties. Seed brown mottled, splashed with buff.

## BEANS — Bush Green Podded Varieties — Continued

### TENNESSEE GREEN POD OR BROWN BUNCH

52 Days

Vine dark, 12 inches, lazy sprawling growth, large leaves. Pods medium light, 6 to 8 inches, curved, wide, flat, very thin when fit, become knobby with deep indentures between seeds as pod ages; crisp, tender, stringless when young, developing string later. Seed dark brown, medium large, wide, flat.

### TOPCROP

52 Days

Plant medium large with leaf similar to refugee 15-16 inches tall bush habit. Pods medium light green,  $5\frac{1}{2}$  to 6 inches long, round, meaty, crisp and slightly curved. Strictly stringless and fiberless up to advanced stages. Seed mottled brown and white.

### BLACK VALENTINE, STRINGLESS

50 Days

Plant large, erect, prolific. Pods long, practically straight, oval of good color and texture and is completely stringless. Seed oval, black. Popular with shippers and market gardeners.

### RED VALENTINE, STRINGLESS

54 Days

Plant medium size, erect, very productive. Pods 4 to  $4\frac{1}{2}$  inches long, medium green, round, curved, slim with crease in back; stringless; very fleshy, crisp and tender. Seed purplish red, splashed with pale buff.

### VERMONT CRANBERRY

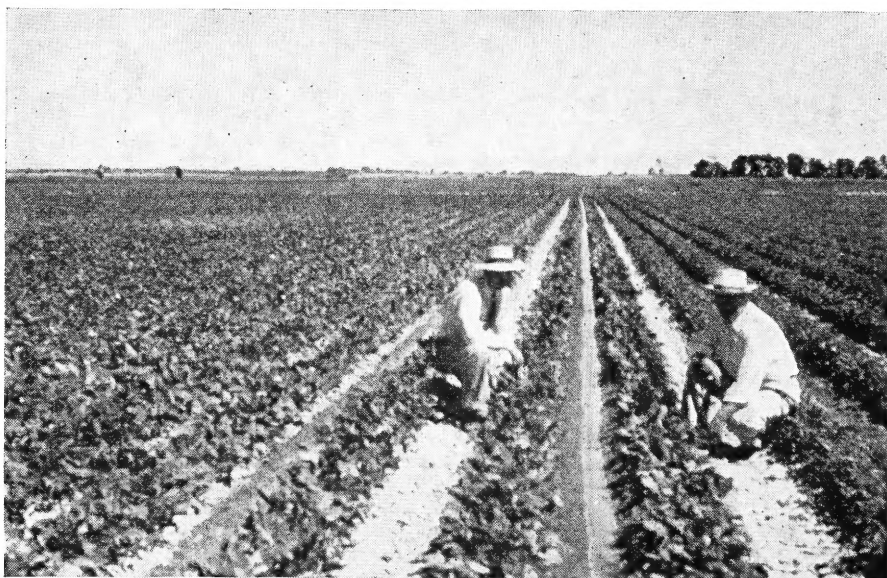
60 Days

Pods 4 to  $5\frac{1}{2}$  inches long, yellow green splashed with scarlet.

### WHITE HALF RUNNER

60 Days

A popular variety in the mountain areas of the mid-south and southeast; used mainly for home gardens for snap and shelled beans. Vine—bushy, vigorous and productive with short runners. Pods—4 inches long,  $\frac{3}{8}$  inches wide, round, medium light green, stringy and fibrous at full size, but has a distinctively good flavor. Seed—pure white, oblong, round cross section, medium size, 2,500 per pound.



Bean Seed Field in Idaho



## BEANS — FIELD OR SHELL

### GREAT NORTHERN OR LARGE WHITE NAVY

100 Days

Vine a medium dark color, 14 to 18 inches, rank, heavy growth with short tendrils. Pods medium dark, 3 inches long, flat and straight. Very heavy cropper. Grown mostly in the northwestern states as a commercial white dry bean. Larger, heavier growth and a heavier producer than the old Michigan Navy, but is not equal in quality. Seed white, medium small.

### KIDNEY, DARK RED MAHOGANY

96 Days

Vine dark colored, strong growing, upright 18-inch bush with a rather scant growth of large leaves. Pods dark, 5 inches long, wide, flat, straight, stringy, fibrous and unfit for snap use. Used as a dry shell bean in the commercial market. Seed dark red, medium large, flat, kidney shaped.

### KIDNEY, IMPROVED WHITE

100 Days

Vine dark, 18 inches, strong growing bush with a rather scant growth of large leaves. Pods dark, 4 inches, wide, flat, straight, stringy and fibrous at all stages. Is not a snap bean type. Used as a dry shell bean. Seed pure white, medium large, kidney shaped.

### MARROW, LARGE WHITE

100 Days

Vine medium dark, 16 to 18 inches, heavy, strong growing, short runner type. Pods medium dark, 4 to 5 inches long, wide, flat, straight, stringy and fibrous. Used as a dry shell commercial bean. Seed pure white, medium large, rounded oval.

### NAVY

100 Days

Vine medium dark, 16 to 18 inches, strong growing, short runner type. Pods light green, 3 inches long, flat, straight, medium broad. Dry shell commercial bean. Above is description of the original Michigan Pea bean. Seed pure white, small, oval.

## BEANS — BUSH WAX PODDED VARIETIES

### BLACK WAX, PENCIL POD

53 Days

Plant large, vigorous, upright. Very dependable producer. Pods golden yellow, 5 to 6 inches long, round, curved; very meaty, stringless and of excellent flavor. Some fiber in older beans. Seed black.

### CHEROKEE WAX (VALENTINE WAX)

50 Days

Resembles Stringless Black Valentine except for color of pod. Plant large and erect, pods golden wax, oval, nearly straight, stringless, tender and of good quality, seed black.

### DAVIS WHITE WAX

52 Days

Plant medium large. Pods 6 to 6½ inches, thick-flat, light yellow, straight, uniform and attractive; stringless, fibrous, of fair quality. Seed white, kidney shaped.

### GOLDEN WAX, IMPROVED

50 Days

Vine medium light, 14-inch, strong, sturdy bush with a medium heavy leaf growth. Pods a fine deep waxy yellow color, four inches, straight, wide, thick, flat, stringless, considerable fiber as pod ages, very well flavored. Seed white splashed with mottled red around eye and end of seed.

## BEANS — Wax Podded Varieties — Continued

### TOP NOTCH GOLDEN WAX

51 Days

Pods are an inch longer than old type Improved Golden Wax. Seed is similar in size, but more white and smaller eye.

### IMPROVED STRINGLESS KIDNEY WAX

53 Days

Resembling Wardwell's Kidney Wax but pod is longer and thicker, not so broad; fairly productive and of high quality; stringless, fiberless, very fleshy and brittle. Pods about 6 inches long and of an attractive, clear yellow color. Seed white with black eye, kidney shaped.

### ROUND PODDED KIDNEY WAX OR BRITTLE WAX

52 Days

Plants are of strong growth, spreading and very productive. The leaves are large, broad and roughened. Pods are round, 5½ inches long, slightly curved, light yellow, waxlike, stringless and of the very best quality. Seed white with black eye, kidney shaped.

### ROYAL PURPLE WAX

48 Days

Vine medium dark, 16-inch thick, heavy bush. Pods bright wax, 4½ inches long, round, curved, stringless at all stages without fiber. Seed light purple, speckled with buff.

### SURE CROP OR BOUNTIFUL WAX

53 Days

A vigorous growing, very productive variety. Pods about 6 inches long, stringless nearly round, attractive in color and remain a long time in condition for snaps. Seed jet black.

### UNRIVALLED WAX

52 Days

Pods 5 to 5½ inches long, rather narrow, either perfectly straight or slightly curved, somewhat flattened but fleshy. The pods show their clear yellow color at an early stage and while having a trace of strings are quite fiberless. Plant large, vigorous and nearly disease resistant. Seed distinctly small, flat, kidney shaped, ochre-brown in color.

### WARDWELL'S KIDNEY WAX

50 Days

Hardy and productive. Pods 5½ to 6 inches long, broad, thick, flat and of a delicate waxy yellow. Of excellent quality and with no string in the early growth. Seed white with dark red eye and splashing at end.

### WEBBER WAX OR CRACKER JACK WAX

50 Days

Vine medium dark, 16 inch, strong growing bush with a fair leaf development. Pod good rich wax color, 5 to 6 inches long, flat, slightly curved, medium broad, meaty and well flavored; stringless and without fiber when small but develops fiber and becomes coarse with a slight string as it ages. Seed cream-yellow, medium small.

## BEANS — BUSH LIMA VARIETIES

**CULTURE.** Lima Beans require even more heat than other Beans. They should not be planted until the ground is thoroughly warmed. Bush Limas should be sown on good garden soil in 2 to 3 ft. rows, 3 to 6 inches apart, eye down, cover 1 inch if planted in light soils, less in heavy soil. One pound will plant 50 to 60 feet. Pole Limas are more tender than the Bush Limas. Set 6 ft. poles, 4 feet each way and drop 4 to 6 beans, eye downward around each pole, thinning to 3 plants when up.

### BURPEE'S BUSH LIMA

78 Days

Plants 18 to 20 inches high, very productive. Pods 4 to 4½ inches long, containing three to four beans, which are flat and wide and of excellent quality.

**BEANS — BUSH LIMA VARIETIES — Continued****BURPEE'S IMPROVED BUSH LIMA**

75 Days

Similar to Burpee's Bush Lima, but slightly earlier and longer podded. Plant large, erect, vigorous, very productive; pods contain four to five seeds. Dry beans, large, plump, flat-oval, surface somewhat wrinkled, color white with greenish tinge.

**FORDHOOK BUSH LIMA**

75 Days

Vines strong, erect and true bush lima growth. Foliage heavy and very dark green in color. The stalks that produce the blossom are thrown out from the lateral and main stalks. Pods are large, thick, containing three to five beans. The most popular market gardeners' lima bean.

**FORDHOOK No. 242**

75 Days

Plants similar to Fordhook but with greater spreading habit and somewhat earlier. Pods  $3\frac{1}{2}$  to 4 inches with 3 to 4 beans per pod. Yields well under adverse conditions.

**GREEN SEEDED HENDERSON**

68 Days

Pods and bush are identical with Henderson Bush Lima. Seed has the same appearance as Henderson, but fleshy part of seed or cotyledons are green instead of yellow as in all other limas in dry seed stages.

**HENDERSON'S BUSH LIMA OR DWARF SIEVA**

66 Days

Our stock is the true Henderson's Bush Lima and not the common Baby Lima. Plants bushy, very productive. Pods flat, 3 inches long, containing three to four seeds. Green shelled beans small, flat and of excellent quality.

**JACKSON WONDER OR CALICO LIMA**

66 Days

Vine dark, 12 inch, thick bush with heavy leaf growth. Pods dark,  $\frac{3}{4} \times 3$  inches, flat, medium thin. In every way is like the Henderson's Bush except in color of seed. Seed light buff, purple speckled. Heavy yielder.

**PEERLESS (U. S. 243)**

70 Days

Plants 16 inches, gray-green foliage. Pods similar to Fordhook, seeds about half way in shape and size between Fordhook and Henderson Bush Lima.

**BEANS—POLE LIMA VARIETIES****CAROLINA SMALL WHITE LIMA AND SIEVA**

76 Days

Vines vigorous, with many short branches so that they are sometimes grown without poles; very early and productive, bearing short pods, which are thin and curved. Seed white, flat.

**CARPINTERIA POLE LIMA**

88 Days

Vines vigorous, producing an abundance of large, medium green pods 5 to 6 inches long, containing 4 beans of large size.

## BEANS — POLE LIMA VARIETIES — Continued

- FLORIDA BUTTER OR SPECKLED POLE LIMA** 80 Days  
Vine medium heavy. Pod medium dark, 3 to 3¼ inches long, thin, flat. Green shelled beans, pale creamy white color, fine flavor. In the Sieva class with a colored seed. Seed cream, purple speckled, medium small.
- LEONARD'S IMPROVED FLORIDA BUTTER POLE LIMA** 80 Days  
A distinct variety. Pods large, beans very tender and of excellent quality. Heavy yielders. Seed is more than double the size of Florida Butter, very striking in appearance, creamy white, mottled with purple.
- KING OF THE GARDEN LIMA** 88 Days  
The old standard market and family sort. The vine begins to produce pods at the foot of the pole and the bearing season continues until frost. Pods large and well filled with beans of mammoth size.
- LARGE WHITE LIMA** 88 Days  
Very productive. A favorite among the Lima Bean growers for the market. Pods contain 3 to 4 beans, which are large, white and flat.
- WILLOW LEAF POLE LIMA** 85 Days  
Very similar to Sieva but with narrow, willow-like leaves and thus more resistant to the conditions of hot and dry weather in those sections of the South where it is grown.

## BEANS—POLE OR RUNNING VARIETIES

**CULTURE.** On well enriched soil, set firmly in the ground every 3 or 4 feet each way, poles that are, when set, about 6 feet high. Some time after bush beans are planted, plant six or eight pole beans one inch deep near the base of each stake and later thin to three or four plants to the pole. Thirty pounds of pole beans generously plants an acre and one pound plants one hundred hills. The pole bean bears over a longer period than the bush bean and is generally considered of superior quality but it requires more labor, longer time to mature and is more sensitive to adverse climate and soil conditions. Side dressing with complete commercial fertilizer desirable when first blooms appear.

- BLUE LAKE** 64 Days  
Pods are round, slightly curved, tender, fleshy, stringless and fiberless, medium green; used in canning and freezing. Vines are 4 to 5 feet tall. Seeds are entirely white and small oval in shape.
- CREASEBACK, STRIPED OR SCOTIA** 72 Days  
A very hardy and productive cornfield Bean. Pods dark green, 6½ to 7 inches long, round straight and creasebacked; slightly stringy, very fleshy, fine grained, attractive and of good quality. Seed light tan, black striped.
- CREASEBACK, WHITE** 63 Days  
An extremely early Pole Bean. Vines small to medium and wonderfully productive, bearing pods in clusters of from 4 to 12 and medium in length. An excellent shipper. Seed small oval, white.
- CUT SHORT, RED SPECKLED OR CORN HILL** 73 Days  
A fine variety for planting with Corn, 5½ to 6 feet tall; pods 4 inches long, straight, thick, crisp when young. Seed grey, red speckled, small, oval.
- DUTCH CASE KNIFE, EARLY** 65 Days  
Vines moderately vigorous, climbing well, and excellent for a corn hill bean. Leaves are large, crumpled; pods 6 to 8 inches long, flat, green in color, becoming creamy white later. Beans broad, kidney shaped and white in color.
- GENUINE CORNFIELD** 71 Days  
Pods round, straight to slightly curved, stringless while young, moderately fibrous, fleshy, medium green becoming purple splashed. Seed oval, tan with irregular brown mottling and stripes.

**BEANS — POLE OR RUNNING VARIETIES — Continued****GOLDEN CLUSTER WAX, EARLY****74 Days**

Plants large with heavy foliage; very productive. Pods 7 to 8 inches long, wide, flat, waxy yellow, very meaty and stringless when young. Seed oval-flat, white.

**HORTICULTURAL CRANBERRY****70 Days**

Vines moderately vigorous, bearing short, broad, pale green pods, becoming streaked with bright red as they near maturity. Beans large, ovate and splashed with red. Used either green or in the dry state.

**KING MAMMOTH PODDED HORTICULTURAL OR WORCESTER POLE****75 Days**

Vine medium dark, heavy growing pole, leafy. Pod medium dark, 5 inches long, wide, thick. Largest of the horticultural family. Pods can be used as snaps if taken soon enough; best as a green shelled bean. Seed light tan, red speckled, medium large, nearly round.

**IDEAL BLACK POLE****58 Days**

Earliest and most prolific of the green podded pole beans, being a full week earlier than Kentucky Wonder. Pods 5 inches long, round, slightly curved; stringless and borne in clusters of six; very tender, pulpy and excellent in quality. Seeds black.

**MICHAEL-LEONARD'S STRINGLESS KENTUCKY WONDER****64 Days**

This new variety is essentially a strictly stringless and fiberless type of Kentucky Wonder which it resembles strongly. Pods round slightly curved, meaty and strictly stringless and fiberless at all stages. Flavor delicious similar to Kentucky Wonder. Seed is medium brown, long oval shape.

**KENTUCKY WONDER OR OLD HOMESTEAD****65 Days**

Vines vigorous, climbing well, and very productive, bearing its pods in large clusters; blossoms white; pods green. Stringless, 8 to 9 inches long; nearly round when young and very crisp, although at maturity they become irregular and spongy. The dry beans are long, oval, dun-colored.

**KENTUCKY WONDER WHITE SEEDED OR BURGER'S STRINGLESS****64 Days**

Pods 6 to 7 inches long, round, slender and straight; very tender, fleshy and stringless of high quality. Color dark green. Seed oval-flat, white.

**KENTUCKY WONDER WAX****68 Days**

Vine medium dark, heavy growing pole type, heavy leaf growth. Pods fine, wax color, 8 inches long, round when young, curved, very meaty, crisp, stringless when young, and without noticeable fiber. As pods age there is a trace of fiber, slight string, and they become somewhat saddle-backed. Very heavy bearer over a long period of time. Seed reddish brown, medium large, oval-flat.

**LAZY WIFE****72 Days**

Vine medium dark, quite a heavy growing pole type, with a fair leaf development. Pods medium light, 6 inches long, broad, flat, straight, stringless, very little fiber, meaty, crisp and well flavored. Good for snaps, green shell and dry shell. Seed white, medium small, nearly round.

**McCASLAN'S POLE****65 Days**

Vine medium dark, strong growing pole type, with good leaf growth. Pods light, 8 inches long, flat, medium thick, broad, stringless when young, crisp, fiberless and well flavored. Makes a good snap when young, fine green shell and a fair dry shell. Seed white, medium small.

**MISSOURI WONDER OR NOXALL****66 Days**

Vine medium light, strong growing pole type, with good leaf development. Pod light green, 6 inches long, round slightly curved, crisp when young but tough and stringy at all stages. Seed grey, brown speckled, medium small.

**BEANS — POLE OR RUNNING VARIETIES — Continued****OREGON GIANT****71 Days**

A variety adapted to and used in Pacific Northwest. Plants sturdy and climb well. Pods are thick, oval, very meaty, splashed with purple. Stringless and fine flavored, seed pinkish light brown with black stripes.

**SCARLET RUNNER, FLOWERING****90 Days**

Vine very strong growing, dark colored, heavy leaf growth, long runner pole type. Pod dark, 6 inches long, wide, thick, straight, coarse grained at all stages, usable as snaps when very small, excellent green shell. Used mostly as a climbing ornamental vine on account of its purple blossoms. Blossoms freely from mid-summer to freezing. Seed dark purple with pinkish purple blotches.

**TENNESSEE WONDER****71 Days**

Somewhat similar in habit to Kentucky Wonder but with immensely larger, straighter, smoother and more creasebacked green pods. More suitable as a shell than snap bean. Seed slate-grey, black striped.

**YARD LONG OR ASPARAGUS****72 Days**

Vine dark green, short runner, pole type, good growth of small pointed leaves. Pod light green, slim, somewhat inclined to saddle-back shape, rounded, 15 to 20 inches long, light string, no fiber, crisp and tender. Seed brown, small, short flat, kidney shaped.

**SOYBEAN****BANSEI****90 Days**

Plants erect and of medium height, very prolific, well adapted for short season areas. Beans glossy yellow, elliptical, of mild pleasing flavor.

**BEET — FOR THE TABLE**

**CULTURE.** As soon as the soil can be worked in spring, sow beet seed in 12- to 18-inch rows for hand cultivation or 18- to 30-inch rows for machine cultivation, dropping 12 seeds to the foot. Cover the beet seed, one-half inch. Later, thin the Beets to 3 to 4 inches apart. Planted April 1st the early varieties should be marketable June 1st or the crop may be advanced several weeks by starting under glass and transplanting to the open, first giving the beet tops a severe pruning. Use 1 ounce of seed to 75 feet of row and 6 pounds to the acre. Beets sown in early July should be ready to store in pits or in sand in the cellar when freezing weather begins. Number of days is from planting to edible root.

**BLOOD TURNIP, EARLY IMPROVED****60 Days**

An extra selected stock of Blood Turnip having larger, coarser tops and roots than the Detroit Dark Red and requiring a considerably longer time to mature. Excellent for summer and autumn use.

**CRIMSON GLOBE, EARLY****58 Days**

Tops medium large, nearly all red with a slim upright leaf development. Roots dark red, nearly a perfect globe, usually smooth and clear of side roots. Flesh dark red, faintly zoned, with purplish white.

**DETROIT DARK RED****55 Days**

An outstanding variety for truckers, produce shippers and canners. Tops medium, dark green tinged with red. Roots globular. Color deep ox-blood red. Flesh dark red with indistinct lighter red zones. Fine quality, sweet and tender.



**BEET — FOR THE TABLE — Continued****PERFECTED DETROIT**

55 Days

A mid-season variety. Tops tall, green and red. Roots globular, medium smooth, deep red; flesh dark red with somewhat lighter zones; of good quality. Adapted to the uses of market gardeners and canners.

**EARLY WONDER**

55 Days

Roots very uniform, nearly globe-shaped with small top and tap root; skin dark red, flesh deep blood red with little zoning. Popular with market gardeners for early or late planting.

**EGYPTIAN, MICHAEL-LEONARD'S DARK RED**

50 Days

The best stock of Egyptian Beet on the market today. It is dark red, free from light zones, early and an excellent beet in every way.

**EGYPTIAN, CROSBY'S**

50 Days

An extra early variety especially adapted for the market gardener and home garden. Roots average 3 inches, of dark red color and almost globular; flesh distinct vermilion, which it retains in cooking. Pleasing sweet flavor. Tops medium.

**EGYPTIAN, EARLY FLAT**

48 Days

Large, upright, dark red leaves with green tint. Roots a very deep, dark red, flat, thick, sometimes inclined to be rough and irregularly shaped. Usually clean and free of fiber roots. A small tap root. Cut flesh shows a very deep dark color with very faint zoning of slightly lighter red.

**GREEN TOP BUNCHING**

52 Days

Foliage clean, grayish green that does not turn red or brown in fall. Roots round, smooth, and glossy, slightly flattened when mature; flesh bright blood red. Diameter,  $2\frac{1}{2}$  to 3 inches.

**LONG SMOOTH DARK BLOOD**

78 Days

The standard long, late sort. Roots 8 to 10 inches long, very dark, blood-red flesh; quality fine.

**LUTZ GREEN LEAF**

75 Days

A medium late variety for home use. Tops small, glossy green, with pink mid-rib. Roots half long, top-shaped; dark, purplish red. Flesh deep blood red with indistinct zones. Good quality and an excellent keeper.

**SWISS CHARD****SWISS CHARD, LUCULLUS**

55 Days

An improved type of Chard. Of more upright growth than the Silver variety; leaves yellowish green, much crumpled and curled, mid-rib and veins white, stalks thick, broad and flat and as large as rhubarb.

**SWISS CHARD, SILVER**

55 Days

Light green, blunt spear head leaf on a short stem, slightly lighter stem and vein. Makes a thick, heavy growth for cut-and-come-again greens. Grows 18 to 20 inches tall. Leaves usually quite smooth; sometimes slightly savoyed.

## SWISS CHARD—Continued

### SWISS CHARD, FORDHOOK GIANT OR DARK GREEN WHITE RIB

55 Days

Very broad, thick, heavy, short white stem and a large, broad, thick, very much crumpled and savoyed spear shaped leaf, growing to 26 and 28 inches tall. Leaves very glossy and waxy looking; upright growth. Best of all the chards; leaves make the most tender of greens and the broad white stems used as asparagus are excellent.

## BEET—SUGAR

In growing, the sugar beet is treated like the mangel except that only six or eight inches of space is given each beet in the row.

### KLEIN WANZLEBEN—For Sugar

90 Days

The variety most used for sugar manufacture on account of high sugar content; is also good for stock feeding. Roots long with thick shoulder, tapered; skin grey-white, flesh solid white.

## BEET—MANGEL WURZEL

Plow deep for this crop and in May or June plant six mangel seed to the foot in two or three foot rows, later thinning to a nine inch stand. One ounce sows one hundred feet of row and six pounds an acre. When a light frost has occurred, lift the roots and store in pits or cellars.

### GIANT HALF SUGAR ROSE—For Feeding

90 Days

This unites the large size of the mangel with the greater feeding value of the sugar beet. The roots average 10 to 12 inches and the outline is that of a broad, thick wedge, the upper portion of a soft bright pink, shading lighter toward the bottom where the lower portion for about one-third the length is white.

### GOLDEN TANKARD

100 Days

Shape cylindrical, color deep rich yellow; flesh yellow circled with white. Unequalled for feeding stock.

### IMPROVED MAMMOTH LONG RED

108 Days

The largest and most productive Mangel. Roots 5 inches thick, 15 inches long, tapering to a point. Grows half above the ground. Color light red.

### GIANT SLUDSTRUP OR YELLOW INTERMEDIATE

110 Days

A good cropper and of high feeding value. Roots long, oval, reddish yellow; grows half above ground, easily harvested. Flesh white tinged with yellow.

## BROCCOLI

### GREEN ITALIAN SPROUTING

60 Days

A distinct variety of the sprouting type. It forms a large head consisting of a cluster of bluish-green flower heads. When this central head is removed the plant develops numerous lateral sprouts, each of which produces a small head. These are cut, leaving about 6 inches of the stem, and are tied in bunches for market. Both stems and heads are cooked and served like cauliflower.

## BRUSSELS SPROUTS

One of the most delicious garden vegetables. Plant in 3-foot rows, 1½ to 2 feet apart. One ounce will produce about 5,000 plants. Cultivate same as cabbage. Autumn grown sprouts, drilled in May and transplanted in July, generally do the best, as the plants are quite hardy and the buds mellow under frost.

### DWARF IMPROVED

75 Days

Grows 18 to 30 inches high, producing compact sprouts 1 to 2 inches in diameter; grayish green in color. Hardy, early.

## CABBAGE

**CULTURE.** Cabbage plants, when properly hardened by gradually being brought to a low temperature and the quantity of water in them diminished, will stand any frost and some considerable freezing. Yet a cabbage plant raised at a high temperature and full of water will be killed by even a light frost. Cabbage can be grown by planting the seed heavily where the crop is to grow and thinning the plants but a better practice is to raise the plants without crowding, in a seed bed, which is not richer than the fields to which the plants go. Transplant, if possible, on a cloudy day, watering the plants if the soil is dry. For early Cabbage, sow seed in hotbeds in February, transplant to cold frames in March and set outside in April or sow seed out-of-doors as soon as the soil can be worked in spring, covering the seed one-third inch deep. All vegetable plants are best when grown without check, so let as much soil adhere to the roots of the plant in transplanting as will hold and set up to the first leaf. At this time the plants should have 4 or 5 pairs of leaves and be 4 to 6 inches high. Set small varieties to be worked by hand as close as 18 inches, while large, late varieties, horse cultivated, need 30 or more inches. If heads are so early as to begin bursting, push the head to one side far enough to tear off the roots on one side. Cabbage grows successfully on a wide variety of soils and experience points to liming, deep plowing and heavy manuring as successful practices. The number of days given is the time required from setting plants to mature heads.

- ALL HEAD EARLY** 78 Days  
A medium early variety, excellent for shipping and for kraut. Heads medium flat, slightly rounded at top, 7 inches deep, solid, uniform in size and color, and of good quality.
- ALL SEASONS** 88 Days  
Of medium season, a good keeper. Heads large, solid, 7 inches deep and of excellent quality. Stands hot weather well.
- CHARLESTON LARGE WAKEFIELD** 72 Days  
About a week later than Early Jersey Wakefield and 50% larger.
- CHINESE—CHIHILI** 75 Days  
Earliest and most sure heading of the Chinese varieties. Plant of upright growth, producing long, solid, white cylindrical heads, 3 to 4 inches thick, 18 to 20 inches in length. Leaves very broad, smooth, fringed on edge, with broad, white mid-rib. Superior quality.
- CHINESE—WONG BOK** 80 Days  
The heads of this variety are shorter and thicker than Pe Tsai, the incurving leaves producing a tighter, more compact head.
- COPENHAGEN MARKET** 65 Days  
One of the finest early round-headed cabbages in cultivation. The heads average about four pounds each in weight, are hard and solid with small core. The quality is extra fine and sweet. It is a short stemmed variety, the heads nearly resting on the ground. The leaves are light green, rather small, saucer-shaped and tightly folded, making it possible to set them close together in the field.
- DANISH BALL HEAD** 110 Days  
Most widely used and best type of late cabbage; desirable for storage and for shipping. Plant fairly large, sturdy, with short stem. Heads deep, round, very hard; interior decidedly compact. Tender, crisp; flavor good.
- EARLY DWARF FLAT DUTCH** 70 Days  
An early Cabbage of good size. Heads are flat and very solid.

## CABBAGE — Continued

- EARLY JERSEY WAKEFIELD** 64 Days  
One of the most popular extra early varieties. The plants are compact, erect, with few outer leaves, and withstand cold and unfavorable weather well as they are very hardy. Heads medium size, cone-shaped and solid. Our stock has been very carefully selected.
- EARLY WINNIGSTADT** 80 Days  
Medium early, short stemmed. Heads solid, fine grained, cone-shaped and pointed, the leaves having a peculiar and distinct twist at point of head. Very productive and of excellent quality.
- GLORY OF ENKHUIZEN** 80 Days  
This is an excellent mid-summer variety. Makes a nice large head, has few outer leaves and can be planted close. Very popular with kraut packers and market gardeners.
- GOLDEN ACRE** 65 Days  
A selection from the earliest strain of Copenhagen Market. It is a few days earlier, is a somewhat smaller plant and has a slightly smaller head than the Copenhagen Market. Very solid, fine grained and exceptionally well flavored. It is the best of the first early round heads for early market and shipping use.
- GREEN ACRE** 66 Days  
An attractive strain of Golden Acre. The type and general characteristics are similar, but Green Acre holds its green color longer and is thus of added value to market gardeners and shippers.
- HOUSER FLAT DUTCH** 105 Days  
An extra large, round, hard heading late sort.
- LARGE LATE DRUMHEAD** 110 Days  
Heads very large, flat, solid, 6½ inches deep; a good keeper. Desirable for home and market garden; also for shipping.
- PENN STATE BALL HEAD** 110 Days  
A late variety, excelling in productivity and uniformity. Plants medium with short stem. Heads attractive, flattened globe, extremely hard, 6 to 7 inches deep, weighing 5 to 6 pounds.
- PREMIUM LATE FLAT DUTCH** 102 Days  
This variety of late Cabbage is a standard in all sections for winter use. It makes a large, solid, flat head, which keeps long without bursting and is adapted to a more varied climate than probably any other variety.
- DRUMHEAD SAVOY** 89 Days  
The best winter keeper of the Savoys. Heads late, round, compact and solid; leaves numerous, deep green and coarsely crimped.
- IMPROVED AMERICAN SAVOY** 87 Days  
Closely approaching the cauliflower in delicacy and delicious flavor. The best of all Savoys for general market or home use. It has a short stump, grows to a large size, is compact and solid — a sure header.
- STEIN'S EARLY FLAT DUTCH** 92 Days  
An early and excellent type of Early Flat Dutch with a medium stem. Heads round, flat and solid.
- SUCCESSION** 85 Days  
Heads large, thick, flat, solid, 9 x 5 inches and weighs 7 to 8 pounds. Very crisp, well flavored, quite fine grained and well bleached. Early fall market and garden type.

## CABBAGE — Continued

**RED, ROCK MAMMOTH**

105 Days

The largest heading of any red sort. Heads are hard, of deep red color, quality excellent.

**RED, DUTCH**

Leaves red or purple. Head medium size, round solid, deep red color. Stems of medium length. Good keeper.

## CABBAGE—YELLOWS RESISTANT VARIETIES

**ALL SEASONS YELLOWS RESISTANT**

92 Days

Yellows resistant strain of All Seasons. Not quite as uniform and coarser in texture.

**BUGNER'S**

120 Days

A winter Cabbage which has been and still is the most popular late variety around Chicago. It makes very large, somewhat flattened heads which are extra hard and solid. The variety is, furthermore, greatly resistant to "yellows" disease.

**GLOBE OR GLORY OF ENKHUIZEN YELLOWS RESISTANT**

80 Days

An excellent yellows resistant selection of Glory of Enkhuizen. Heads large, round and solid.

**RESISTANT GOLDEN ACRE (Detroit)**

65 Days

A Golden Acre type from Denmark into which yellows-resistance has been bred. Medium small, round heads.

**JERSEY QUEEN**

65 Days

A yellows resistant strain of Jersey Wakefield.

**MARION MARKET OR COPENHAGEN MARKET YELLOWS RESISTANT**

75 Days

Yellows resistant strain of Copenhagen Market. Larger leaves and more spreading. Larger and later maturing round heads.

**RACINE MARKET**

64 Days

Large, round uniform heads of Golden Acre type. Will remain in field longer than other early Cabbage without splitting.

**WISCONSIN BALLHEAD**

100 Days

Heads very hard, smaller but more uniform and smoother than Wisconsin Hollander, short stem, blue-green leaves.

**WISCONSIN No. 8 YELLOWS RESISTANT**

110 Days

Similar to Danish Ball Head but not as uniform.

**RED HOLLAND, Y. R.**

100 Days

A red cabbage with medium sized round, uniform heads; excellent for shipping or storing. Yellows Resistant.

## CANTALOUPE AND MUSKMELON

**CULTURE.** For muskmelon follow our cultural directions for cucumber except that where a robust growing variety of muskmelon is grown, a space of as much as six by six feet is sometimes required between hills. One ounce of seed plants fifty hills and three pounds plants an acre. The crop, or the last planting for a succession, should be in June. While not necessary it is advisable to pinch off the branches of muskmelon if a quicker matured or a larger or a better fruit is required. Pick the melon when it parts from the stem without difficulty and store a few days in a cool room. Number of days is from planting to ripe fruit.

- BANANA** 96 Days  
Fruits 3 x 14 inches, long slim, tapered, slightly ribbed and tapered to both ends. Yellowish green to yellow as it ripens. Flesh is thick, salmon in color; small seed cavity, and if picked just as it ripens it is very well flavored.
- BENDER'S SURPRISE** 94 Days  
Fruits 8 x 7½ inches. It is the largest of the pink fleshed melons of oval shape, early for a melon of this size. The flesh is of exceptionally high quality. It has coarse netting, distinct ribs and the rind is very hard, enabling it to be shipped some distance.
- EMERALD GEM** 85 Days  
Fruits 4½ x 5 inches, globular or slightly flattened, somewhat irregularly ribbed and very slightly netted. It is a very early, yellow fleshed melon of small to medium size, one of the very best for the home garden.
- HACKENSACK, EXTRA EARLY** 82 Days  
Medium to large sized, nearly round or somewhat flattened, evenly and deeply ribbed, with very coarse netting. Skin is green, slightly tinged with yellow as the fruits mature. Flesh is green, a little coarse but juicy and sweet.
- HACKENSACK, LARGE OR TURK'S CAP** 90 Days  
A very large, green-fleshed melon. The vines are hardy, vigorous and productive. The fruits are nearly round, usually somewhat flattened; ribs are large and of irregular width, densely covered with coarse netting.
- HALE'S BEST, NO. 36** 83 Days  
Fruit 5 x 5½ inches, nearly round, very lightly ribbed, finely netted, green shading to light yellow as it ripens. Flesh thick, firm, stringless and very well flavored; not too sweet. Very small seed cavity with tight web of a salmon pink color. An exceptionally fine early strain for long distance shipping purposes.
- HALE'S BEST, JUMBO STRAIN** 83 Days  
Fruits oval. 5-6 lbs.; ribbing somewhat prominent, heavily netted. Flesh thick, salmon-orange, sweet and of excellent quality; seed pocket rather large.
- HONEY BALL** 105 Days  
A cross between Honey Dew and Texas Cannonball. Fruits 5 x 4¾ inches, round, no ribs, netted, light green turning to yellowish white as it matures. Flesh greenish-white, quite thick, fine grained and firm. Very small seed cavity; thin skin. Flavor is sweet but rather flat. Good keeper and shipper.
- HONEY DEW** 113 Days  
The fruits are round and slightly oval, 6 to 8 inches in diameter, and weigh about 6 to 8 pounds. The skin is smooth and when ripe is creamy yellow in color; flesh light emerald green, fine grained and of very sweet, sugary flavor. Rind thin but very firm, and the fruit stand shipping remarkably well.
- HONEY ROCK OR SUGAR ROCK** 85 Days  
Fruit 5 x 5½ inches, nearly round, no ribs, coarsely netted, gray-green to light yellow as it ripens. Flesh is very thick, tender, salmon pink in color and very well flavored. Very small seed cavity. This is a new type that has become very popular with home market gardeners.



## CANTALOUPE AND MUSKMELON—Continued

**HOODOO OR HEARTS OF GOLD**

90 Days

Fruits 5 to 5½ inches, nearly round, very slightly ribbed, finely netted, light green to light yellow as it ripens. Flesh is very thick, firm and delicious. Very small seed cavity with a tight web. Color a bright yellow shading to pink. Stands shipping very well.

**LAKE CHAMPLAIN**

87 Days

This very early maturing melon produces almost round, medium sized melons, well netted, moderately ribbed, thick fleshed, sweet and melting, of golden yellow color. The plants are hardy, vigorous and very productive.

**MILWAUKEE MARKET**

87 Days

A medium large, early maturing, pink fleshed melon with excellent eating qualities. The ribs are fairly prominent and the netting is very heavy. The shape is slightly oval, the rind extremely hard, making it an excellent shipping variety.

**OHIO SUGAR**

95 Days

Fruit 6x6 inches, slightly oval, deeply ribbed, finely netted and light green in color. Flesh is light green, thick, firm, sweet and well flavored; fairly fine grained. Large seed cavity. Good garden type.

**OSAGE OR MILLER'S CREAM**

94 Days

Is of medium size, oval in form and dark green in color, somewhat netted and slightly ribbed. The flesh is extremely and uniformly thick, of firm texture and rich salmon in color, highly flavored and delicious to the rind. Seed cavity very small. It is a remarkable keeper and a good shipping melon.

**PERFECTO, Improved**

92 Days

Fruits 5½ x 6 inches, nearly round, and completely covered with hard grey netting without ribs. Flesh is very thick with extremely small seed cell; deep salmon color; fine grained, juicy and sweet.

**PRIDE OF WISCONSIN**

90 Days

A cross between Honey Rock and Hearts of Gold. Fruits oval, 3¾ lbs.; rind pearly gray, faintly ribbed, with sparse, coarse netting. Orange flesh, solid and thick, with small seed cavity, very sweet and fine flavor.

**ROCKY FORD, IMPROVED**

95 Days

Fruit round, averaging 5 inches, little to no rib, heavily netted, medium light green shading to a dark yellow. Flesh very thick, salmon tinted, solid, fine grained and of exceptionally fine flavor. Very small seed cavity.

**ROCKY FORD, GREEN FLESHED**

95 Days

Almost round in shape, covered with netting and averaging about 5 inches in length; flesh green, very sweet and highly flavored.

**SCHOONS HARD SHELL**

92 Days

Fruits are thick oval with heavy blossom scar which resists cracking, prominent ribbing with abundant coarse netting; skin gray-green becoming yellow at maturity, very hard and tough; flesh very thick, deep salmon-orange, solid, well flavored, excellent quality.

**TIP TOP**

89 Days

This very productive melon is of medium to large size, nearly round, slightly ribbed and fairly well covered with shallow netting. The flesh is deep yellow in color, sweet, juicy and of finest flavor, firm but not hard; edible to the very coating.

**VINE PEACH, MANGO MELON**

85 Days

Fruits 1½ x 2 inches, oval, ribless, no netting; covered with peachlike fur. Used for preserves.

## CARROT — FOR THE TABLE

**CULTURE.** The Carrot, whether used raw, fried, boiled or stewed, used alone or combined with other vegetables or meat is not surpassed in nutritious healthfulness by any vegetable. Plant Carrot seed from the time the soil can be worked in the spring till July, in 1- or 2-ft. rows for hand cultivation or in 30-inch rows where a machine tool is used. Use 1 ounce of seed to 100 feet of row, 3 to 4 pounds to the acre, covering one-half inch deep and later thin to a 4-inch stand. To cultivate the rows at an early date, sow Cabbage or Kohl Rabi seed, which germinates quickly, with carrot seed, which germinates slowly. Do not overlook the value of this crop as a stock food. Number of days from planting to roots of bunching size.

### CALIFORNIA PEERLESS

70 Days

This carrot is of outstanding quality, very smooth and of medium size with very small core and does not make very much top. The color is a bright red. It will stay in bunching condition for a long while and is a fine carrot to pack and sell in boxes. The crown is oval in shape and the tops do not break off as in other carrots.

### CHANTENAY

70 Days

Tops medium sized; necks small; roots tapering slightly but uniformly stump rooted and smooth; color deep orange-red; flesh very crisp and tender. A heavy cropper and is undoubtedly one of the best for both the market and private garden while its great productiveness makes it very desirable as a field sort.

### CHANTENAY, RED CORED

70 Days

An outstanding favorite with many people who grow carrots in their gardens. The rich deep reddish-orange color extends clear to the center. The root tapers to a blunt end.



Carrot Seed Field

## CARROT—FOR THE TABLE—Continued

### LONG OR GREATER CHANTENAY

70 Days

This is a strain of Early Chantenay which resembles the original type in all respects except that it averages  $1\frac{1}{2}$  to 2 inches longer.

### DANVERS

73 Days

Grown largely on account of its great productiveness and adaptability to all classes of soil. Tops of medium size, coarsely divided. The smooth and handsome roots are deep orange, of medium length, tapering uniformly to a blunt point; flesh sweet, crisp, tender and of a deep orange color.

### HUTCHINSON

75 Days

A variety that was developed by selection from the Danvers Half Long. It has slightly darker orange skin, grows an inch or two longer, but differs from the Danvers in that it carries its fullness well down to the end, making it decidedly stump-rooted. A heavy yielder and attractive in appearance.

### IMPERATOR

77 Days

Tops medium but strong enough for good bunching. Roots 7 to 8 inches long, have sloping shoulders, are smooth, deep rich orange; tapered to a semi-blunt end. Flesh rich orange color, extending to center of root with indistinct core; fine grained, tender and of fine quality. An excellent variety for market garden and shipping.

### IMPROVED LONG ORANGE

88 Days

A heavy cropping sort for garden use, and for stock. Roots tapered to a point; red-orange. Flesh similar in color to exterior, with core of lighter shade.

### MORSE'S BUNCHING

77 Days

Tops short; foliage rather coarsely cut and stems medium size and strong. Roots at maturity are  $1\frac{1}{4}$  to  $1\frac{1}{2}$  by 8 inches in size, almost cylindrical, with rounded shoulders, and are well stumped.

### NANTES HALF LONG OR CORELESS

70 Days

Tops of medium size, roots cylindrical, smooth, bright orange; flesh orange, becoming yellow in center but with no distinct core. Excellent for the market or home garden

### OX HEART OR GUERANDE

72 Days

Tops small for the size of the roots, which are comparatively short, but often reach a diameter of 5 inches, terminating abruptly in a small tap root. Flesh bright orange, fine grained and sweet. This variety is especially desirable for soil so hard and stiff that longer rooted sorts would not thrive in it. When young, excellent for table use, and when mature equally good for stock.

### TOUCHON

70 Days

Similar to Nantes but a little larger. Small topped, smooth, cylindrical, bright orange, core very small and inconspicuous. Well adapted to canning and freezing.

## CARROT — FOR STOCK FEEDING

### LARGE ORANGE BELGIAN

90 Days

This is similar to Large White Belgian in growth and form but flesh and skin of the portion growing below the soil are of a pale orange coloring.

### LARGE WHITE BELGIAN

90 Days

Grows a third or more above the surface. Roots will average 2 inches in diameter at the shoulder and a foot or more in length. Are easily pulled in harvesting and do not have to be dug out like most long rooted sorts. Flesh and skin pure white, tinged with green in upper portion growing above the soil.

## CARDOON

### LARGE SOLID

In appearance and growth is like the Globe Artichoke, to which it is closely related, and — like the Artichoke — it is a perennial. Grown for its leaf stalks, which — when blanched — are used in salads or cooked and served like asparagus.

## CAULIFLOWER

**CULTURE.** For very early Cauliflower sow in hotbed in January or February; transplant to flats or cold frames and set out as soon as the ground is warm in the spring, setting 2 to 2½ feet apart each way. One ounce grows 2,500 plants and four to six ounces plant an acre. Cauliflower cannot be expected to mature satisfactorily in hot, dry weather so must have plenty of water especially when the plants are heading. When the head appears, tie the outer leaves over the head or pin these leaves with wood pins or beef skewers so the leaves will shade and blanch the head and then cut the head before it starts to branch. Remember that all the enemies of cabbage emphatically attack Cauliflower and are to be combated in a like manner. For early fall and late Cauliflower, plant in open ground in April, transplanting in June, giving same cultivation you would Cabbage. The number of days given is the time required from setting plants to mature heads.

### EARLY SNOWBALL

55 Days

Plants dwarf, with short pale green leaves. Heads medium, firm, compact, solid, pure white, and of finest quality; a dependable header. Well adapted to shipping.

### SUPER-SNOWBALL

56 Days

A highly desirable main crop variety, also used for early planting. Starts heading early and uniformly. Heads medium large, compact, very white.

### DANISH DRY WEATHER

66 Days

Produces solid, pure white heads considerably larger than Early Snowball, but it is a week later. This variety is especially adapted for growing in dry sections where nearly all other varieties fail to make good heads, but does equally well in all weather.

### SNOWDRIFT (White Mountain)

57 Days

Plant of medium height with upstanding, medium green outer leaves. Head slightly larger than Snowball, firm, solid, very white, well protected inner folding leaves. One of the best varieties for shipping long distances.

## CELERY

**CULTURE.** Press celery seed into the ground; do not try to cover it and when seed is kept wet and not above 60 degrees F. germination occurs in 10 to 20 days. Celery needs 4 to 5 months from seed to use so very early Celery should be started in hotbeds after January and when two inches high, transplanted or thinned to a space of two inches. Later trim the tops to produce stocky plants and when five inches high set where plants are to mature, first trimming off one-third of the roots and leaves. Celery seed may be planted out-of-doors in April and treated as outlined above. Given sufficient water, celery can be grown on any good garden soil and one ounce of seed gives about 6,000 plants. When almost grown, Celery must be blanched by the use of boards, earth, paper or other covering. If boards are used, rows can be set as close as thirty inches; if earth blanched, 48 inches or more is better. Set plants six inches apart in the row and press the soil firmly about the roots. With a few stalks in a garden, a tile set over the plant or a wrapping of paper answers the purpose. If earth is used in blanching it should be drawn about the plant to one-third its height and repeated twice a few days apart till leaves only are exposed. Do not cultivate, hill or disturb celery when damp or rust may occur. In hilling with earth, place a peg at end of row with string to it and pass string about each plant so as to prevent earth from falling into the heart. To store, celery should be only partly blanched. Celery matures best in cool, moist weather, so the grower farther South may delay this planting calendar to fit his own market and convenience. Number of days is from sowing seed to edible stage.

**FORDHOOK OR EMPEROR****125 Days**

Leaf (outer) dark green, (inner) yellowish green, medium large and quite thick, average 18 inches tall. Stalk large and thick, heavy, tender, crisp, very little fiber; blanches to a pale gold heart. Good garden and local market type. A fair winter keeper.

**GIANT PASCAL****135 Days**

This is a green leaved variety and an excellent sort for fall and winter use. It blanches to a beautiful yellowish-white color, is very solid and crisp and of a fine, nutty flavor.

**GOLDEN SELF-BLANCHING, ORIGINAL STRAIN, SELECTED****120 Days**

The original strain has a greenish tinted outer leaf and a yellow inner leaf, leaves are medium heavy with a fairly strong rib; grows 15 to 16 inches tall and is fairly compact in growth. Stalk is medium large, solid, very crisp, without fiber, and blanches to a medium deep yellow. It is most excellent for early market and shipping. Has a very fine flavor.

**GOLDEN SELF-BLANCHING, TALL TYPE****120 Days**

Like the original type but has a slightly slimmer stalk and is 2 inches taller. Looks better when tied in bunches and packs better for shipping.

**EASY BLANCHING****130 Days**

Outer leaves medium dark green; inner leaves yellowish green. Thick, solid, upright growing, 16 to 18 inches tall. Stalk medium large and solid; blanches very easily and quickly to a pale yellowish white; is crisp and shows little or no fiber and has a good flavor. Good winter keeper.

**HOUSER****130 Days**

Medium tall, compact, dark green, easy blanching, becoming creamy; good keeper; similar to Emperor in adaptability.

**UTAH PASCAL (Golden Crisp)****126 Days**

A green variety recommended for fall use, maturing earlier than Pascal. Stems thick, solid, broad, rounded and of fine quality.

**WHITE PLUME SELF-BLANCHING****110 Days**

This is the earliest and most easily blanched. The plants grow rapidly and blanch easily during the summer months. Later in the fall the central stalks and leaves are of pure snowy whiteness even without earthing up.

**CELERY — Continued****WONDERFUL OR GOLDEN PLUME****115 Days**

A selection made from the old type of Golden Self Blanching for a much larger heart or stalk; is a few days earlier. Has all the good points of its parent plus increased size and earliness.

**CELERIAC****LARGE SMOOTH PRAGUE****120 Days**

Grows 12 to 14 inches tall. Roots are tapered in shape, 2 by 5 inches; usually show considerable side roots. Flesh is pure white. Used as celery flavoring for soups. This is the most commonly used strain.

**CHERVIL****CURLED**

Greatly superior to the old plain variety, being earlier, more handsome, and having fully as fine fragrance and flavor.

**CHICORY****LARGE ROOTED OR COFFEE****120 Days**

The dried and prepared roots are used quite extensively as a substitute or adulterant for coffee, and the leaves used as a salad.

**RADICHETTA (ASPARAGUS CHICORY)****60 Days**

Dandelion looking foliage with young seed stalk similar to spear of Asparagus; both young leaves and seed stalk are used, being tender and of dandelion flavor.

**WITLOOF OR FRENCH ENDIVE****140 Days**

Grown for its use as a salad, the blanched head resembling Cos Lettuce in appearance. The seed planted in the late spring gives parsnip-like roots by late autumn. The roots are then placed in earth where there is some heat, as in the greenhouse, boiler room, or a warm cellar. The root then throws out the blanched salad head.

**COLLARDS****TRUE GEORGIA OR SOUTHERN****80 Days**

Plant 2 to 3 feet high, forming a cluster of tender, undulated leaves at the top of its rather long stem; used as "greens" in the south and west.

**BUNCOMBE OR CABBAGE****70 Days**

A cross between Georgia Collards and Charleston Wakefield Cabbage, bred for the easy growth and hardiness of the Collard and the flavor and heading qualities of the Cabbage. It does not winter-kill with ice and snow and stands hot weather as well. Heads are rounded, not as firm as Cabbage but of delicious flavor.

**CORN SALAD****LARGE SEEDED, LARGE LEAVED**

This small salad is used during the winter and spring months as a substitute for lettuce and is also cooked and used like spinach. In warm weather the plants will mature in 4 to 6 weeks.



## SWEET CORN

**CULTURE.** Sweet Corn produces best on fertile soil and the land should receive a good complete fertilizer treatment before planting. Do not plant corn in cold ground unless a good seed treatment is used. About the middle of May, plant corn in hills 3 to 3½ feet each way, dropping 4 to 5 seeds to a hill, later thinning to 3 stalks; or plant in 3 or 3½-foot rows, dropping 3 seeds to the foot, later thinning to stand 1 foot apart in the rows. Seed should be covered ½ inch on heavy soil to 1 inch on light, sandy soil. One pound will plant 200 hills or 400 feet of row and 7 to 10 pounds plant an acre. Plant every two weeks up to July 15th for a continuous supply. Early July plantings are delicious in September. Number of days is from germination to roasting ear stage.

### HYBRID VARIETIES

New and superior Hybrid varieties are rapidly replacing the open-pollinated types. The performance of Hybrids in comparison to open-pollinated varieties is outstanding. The vigor, uniformity in maturity, disease resistance, quality, resistance to lodging and productivity is outstanding and justifies the popularity and widespread use of Hybrids.

#### ALPHABEST

65 Days

Ear—9" long, 8 to 10 rows, medium yellow, excellent quality, sweet and tender with well filled tips, long protecting husk. Plant—5½ ft. tall, vigorous, makes good early growth, dark green, drouth resistant. Use—Canning, whole ear pack; market garden and home garden and freezing. A new introduction in the early class. A fine corn for the home gardeners as well as bringing in a good early price for the market gardener.

#### ALPHAGOLD

60 Days

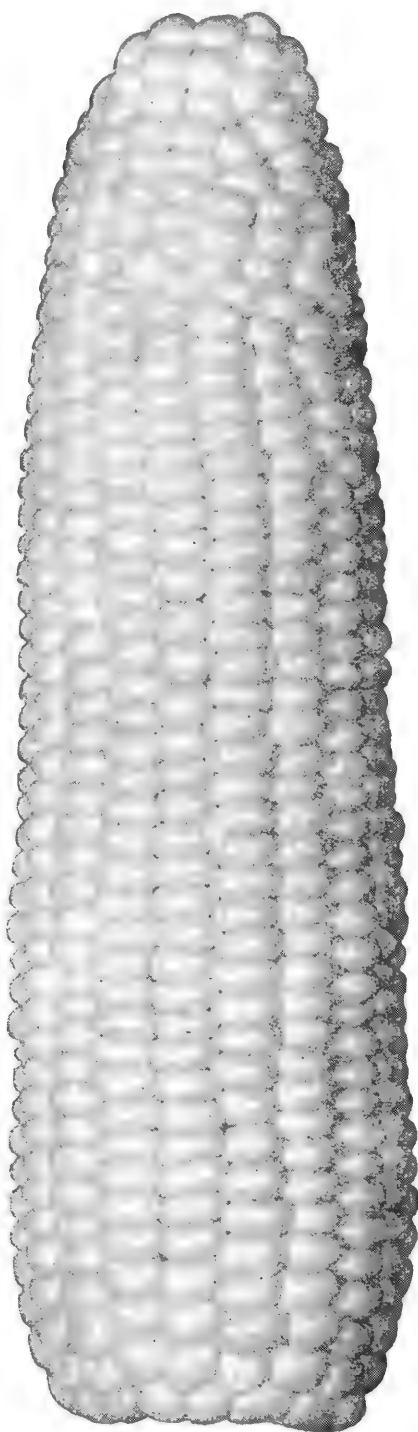
One of the best extra early sweet corns for garden use. This uniform, high yielding, 10 to 12 rowed hybrid closely resembles Golden Bantam but is earlier than most strains now in use. The ears are well covered with a protective husk reducing damage from birds and ear worms so often found in the first sweet corn ready for eating. Plants are about 4½ feet tall, frequently bear two well developed 10 to 12 rowed ears. It fills out exceptionally well at tip of the ear and has much less smut than most early varieties.



Hybrid Sweet Corn Field



Aristogold Bantam  
Evergreen



Golden Grain

## SWEET CORN — Continued

**ALPINE BANTAM**

57 Days

Properly planted, this makes the earliest roasting ears available for home gardens. The seed is hard and durable and should be planted as soon as the ground is warm enough to plant peas and other early vegetables as it will withstand rotting better in cold wet soil than any sweet corn we have worked with. Stalks 5 feet tall, ears 6 to 7 inches well filled at tip and 8 to 10 rowed. Flavor good but matures to starch fast so should be used only as the first early variety for first planting.

**ARISTOGOLD BANTAM**

83 Days

Another one of our winners from the All America Seed Trials and one which is built to stand abuse from the weather. This handsome, fast growing, rich yellow corn yields extra long 12 to 14 rowed ears with deeper kernels than any other Bantam type. Stalks are 8 to 9 feet tall with dark green leaves and husks. The ears are uniform and symmetrical, making exceptional yields even under adverse conditions of drouth or heat because of the deep root system. It is a quality corn, more resistant to ear worm and smut damage and will stand earlier planting in cold, wet soil than other types.

**ARISTOGOLD BANTAM EVERGREEN**

87 Days

This is the biggest yellow sweet corn which can be classed in the high quality group. Ears are 16 to 18 rowed, 9 to 10 inches long with clean stalks 8 to 9 feet tall. It has yielded as much as ten tons of snapped ears per acre under good conditions and is resistant to ear worm, smut and hot weather the same as Aristogold Bantam. But don't let the size mislead you as this corn is strictly first class in flavor and tenderness, good enough that people from the fancy early yellow north country often take ears back with them to give their friends.

**GOLDEN CROSS BANTAM**

82 Days

A bright yellow, 12-rowed corn with 8-inch ears borne well up on a sturdy stalk. The quality is fully equal to Golden Bantam in every way, matures six days later and is two to three times as productive. In addition, this corn is very resistant to the bacterial wilt known as Stewart's Disease, which often causes failure with other early yellow sweet corns. Originally introduced by Glenn Smith of Purdue University and is a very popular variety.

**GOLDENGRAIN**

84 Days

Probably the most spectacular of the yellow sweet corn hybrids. Stalks are 8 feet tall with practically no suckers and bright, dark green leaves. Ears are 8 to 9 inches long with 16 to 18 rows of unusually deep kernels. Ears are borne strongly arched and have excellent husk covering to reduce bird and worm damage. Kernels are narrow and bright gold in color. Another one of our All American champion sweet corns.

**GOLDENMOST**

78 Days

Stalks 5½ to 6 feet tall. Ears 12 rowed, brilliant gold color, has Tendermost flavor and texture and is about a week earlier.

**GOLDEN STATE**

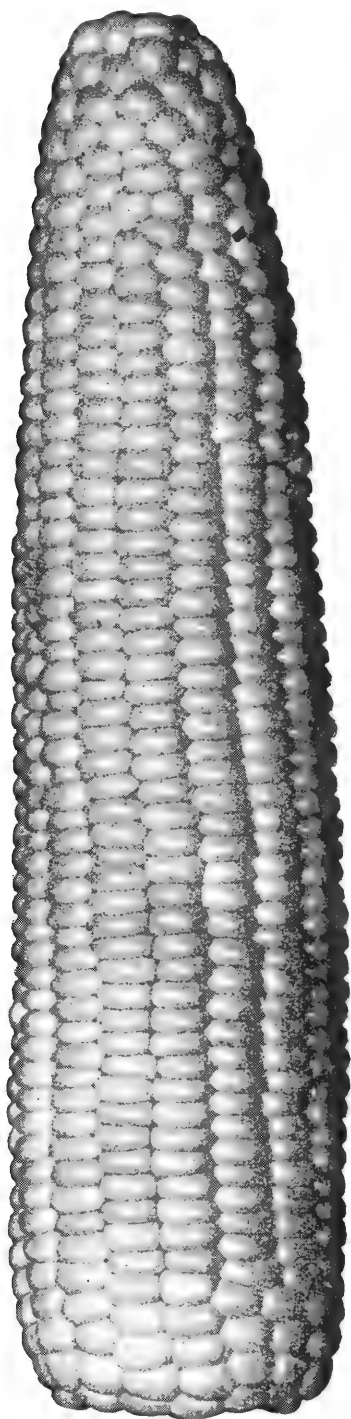
86 Days

Ear—8½" to 9" long, 12 to 14 rows, cylindrical, rich yellow, prolific. Plant—8 ft. tall, dark green, smut resistant. Newest All-America winner from Michael-Leonard. A fine corn for the home and market gardener in the South and deep South. It has a rich golden color that makes it very attractive on the table.

**MICHAEL-LEONARD'S HYBRID GOLDEN HUMMER**

68 Days

Stalks 5 to 6 ft. with showy 12 rowed ears. One of the best early market and garden varieties. The big well filled ears are among the most delicious of the early types. Very hardy and a reliable producer.



Tendermost



Silver Cross  
Bantam

## HYBRID SWEET CORN — Continued

**HYBRID STOWELL'S EVERGREEN**

95 Days

A big eared, thrifty, high yielding hybrid. Stalks 8 to 9 ft. and ears 16 to 18 rowed. Gives top yields of the best quality late white corn. More uniform ear style than Stowell's Evergreen.

**IOANA D.R.**

83 Days

Our D.R. strain of Ioana is about a foot taller and has a slightly longer ear and is more worm resistant than regular Ioana. The ears are also higher off the ground and lend themselves very well to spraying. Excellent market variety for Texas and Florida producers.

**IOCHIEF**

86 Days

Ear—8" to 9" long, 14 to 18 rows, good quality, brilliant yellow, deep kernels. Plant—7 to 7½ ft. tall, few suckers, dark green, drought resistant, good yields. A fine variety for the home garden. Produces large ears on large stalks. The yields are high and the fancy edible period is 85 to 88 days.

**MARCCROSS**

76 Days

Stalks short but sturdy, highly resistant to bacterial wilt. Ears long, plump, abruptly tapered at tips; 10-14 rowed, with light cream-yellow, medium-broad kernels of good quality; popular early hybrid.

**SILVER CROSS BANTAM**

82 Days

We knew this corn was good when we introduced it but the sensational success and universal praise it has met with has amazed us. From Oregon to New York, from Minnesota to Texas we have had enthusiastic reports and a rapid increase in popularity on this variety. Essentially it is the snowy white counterpart of Golden Cross Bantam, carrying all the quality, flavor, and tenderness of the fanciest yellow sweet corns into the white class for the first time. In addition it has a fresh corn crispness all its own and maintains this to a fine degree even when canned or frozen. Ears are 12-14 rowed, a little larger and heavier than Golden Cross Bantam. Stalks are 7 to 8 feet tall, clean with broad, dark green leaves, free from excessive suckers. It is one of the better types for ear worm resistance and even in the cotton belt where worms are very bad, damage is generally confined just to the tip. Silver Cross Bantam is rapidly replacing most of the Evergreen and Country Gentlemen wherever growers have had a chance to observe it. Many people prefer it to the fanciest yellow hybrids.

**SILVER CROSS COUNTRY GENTLEMAN**

91 Days

This is a universally dependable producer in the Country Gent class with typical zig zag rows and deep, tender narrow, snowy white kernels. Ears 8 to 9 inches long with excellent flavor and good texture.

**SILVER CROSS EVERGREEN**

88 Days

This hybrid combines the parentage and quality of the white bantams with the size and yield of the Evergreens. Stalk and leaf growth are like the Early Evergreens but the ears have higher sugar content and excellent tenderness. Ears are about 8 inches long, of good diameter and mostly 16 rowed.

**SILVER CROSS NARROW GRAIN**

91 Days

A hybrid representing some distinct improvements over the open pollinated type. It is vastly more uniform, with greater yield, higher sugar content and superior tenderness. The stalk and leaf growth are similar to Evergreen, although earlier in maturity. Ears are 18 to 22 rowed with deep snowy white kernels and well filled tips. Stalks are vigorous and 8 to 9 feet tall.

## HYBRID SWEET CORN — Continued

**SOOBRED**

82 Days

This outstanding corn is one of our winners from the All America Seed Trials. It ranks at the top of the list for tenderness, flavor and productiveness. The stalks are 6 to 7½ feet tall, bearing 9 to 10 inch 16 rowed yellow ears. There is no corn of this maturity which can excel Soobred in quality and yield either for garden or canners' use.

**TENDERGOLD**

79 Days

A very fine corn of outstanding quality introduced by us. Four days earlier than Golden Bantam and generally twice as productive, the attractive 8 to 9-inch, 12-rowed ears commanding a premium on the market. For tenderness and succulence we have never seen its equal, and it holds this fine quality two to three days longer than other corns. Produces heavy crops in areas where Golden Bantam succumbs to bacterial wilt (Stewart's Disease).

**TENDERGOOD**

87 Days

This is a close relative of Tendermost. Grows 4 to 12 inches taller with somewhat larger ear and yield. 2 to 5 days later in maturity than Tendermost, quality excellent.

**TENDERMOST**

83 Days

We reserved this name for the best quality yellow sweet corn we have ever produced. From the first day the ears are ready to use until the leaves and husks begin to turn brown you will find it the tenderest corn you have ever had in the garden. It is as near hullless as sweet corn can be grown. The clean 9 inch golden 14 to 16 rowed ears are deliciously sweet and develop a brilliant gold color when cooked. They have plump, well filled tips with deep kernels. Plants and ears are about a foot higher and smut resistance is distinctly better than that of Golden Cross Bantam. Generally considered the best main season corn for canning and freezing.

**TOP FLIGHT BANTAM**

82 Days

One of our outstanding winners from the All America Seed Trials this handsome 14-16 rowed yellow sweet corn generally produces two well developed ears per stalk. Ears are about 9 inches long, well filled at the tips, crisp, tender, and succulent. Because of its strong tendency for good twin ears it often yields more dozens of marketable ears per acre than any other kind.

**TRISTATE**

86 Days

Here is the hybrid which produces a higher percentage of perfect ears than any other kind we have had. Uniformly well filled at the tips, the 16 rowed ears have remarkable resistance to ear worms and smut. Plants are very dark green, 8½ to 9 feet tall and are clean and free from suckers. It is one of the best to use in dry seasons.

## SWEET CORN — OPEN POLLINATED

The open-pollinated varieties are rapidly being replaced by new and superior Hybrid strains. After each variety you will find the name of a hybrid variety to replace it.

**BANTAM EVERGREEN**

85 Days

A cross between Golden Bantam and Stowell's Evergreen. Ears 8 inches long, 12- to 14-rowed; grain rather broad and deep of a rich golden yellow color. *Replace with Aristogold Bantam Evergreen or Golden Grain.*



## SWEET CORN — Continued

- BARDEN'S WONDER BANTAM** 74 Days  
Stalk 5 to 6 feet tall, slender, medium dark colored with a fairly heavy, low leaf growth, sparse at the top; ears 8 to 10 inches long, slender, yellow, 8 to 10 rows of broad, medium deep, thick, rich yellow kernels. *Replace with Tendergold.*
- BLACK MEXICAN** 85 Days  
Popular for home and market garden use. Ears 7 to 7½ inches, 8-rowed; kernels tender, very sweet, white at eating stage, changing to blue-black at maturity.
- COUNTRY GENTLEMAN** 90 Days  
Seed small, round, slim, pointed, shoe peg type; stalk 7 feet, ears 7 to 8 inches, tapered, small, white kernels (not in rows) very closely packed, very deep, slim, round top, pure white, very sweet and well flavored. *Replace with Silver Cross Bantam or Silver Cross Country Gentleman.*
- EARLY MINNESOTA** 83 Days  
One of the standard early sorts. Stalk 4½ to 5 feet; ears 8-rowed, 9 to 10 inches long; kernels white. *Replace with Silver Cross Bantam.*
- EARLY EVERGREEN** 83 Days  
The ears of this corn grows 8 inches long, are mostly 14 to 18-rowed. It ripens 10 days in advance of Stowell's Evergreen and is equally as good for all purposes. *Replace with Silver Cross Evergreen.*
- EARLY GOLDEN SWEET** 67 Days  
Ears 12-rowed, slightly tapering, a little lighter in color than Golden Early Market. *Replace with Hybrid Golden Hummer.*
- NARROW GRAIN EVERGREEN** 92 Days  
The ear is as large as the Stowell's Evergreen and averages 20 to 24 rows to the ear. The kernels are very long, narrow. The rows are uniformly straight and the ear holds its evenness from butt to tip more uniformly than any other type of Evergreen. *Replace with Silver Cross Narrowgrain.*
- STOWELL'S EVERGREEN** 94 Days  
Standard main crop variety. It is popular for marketing and for the home garden. Stalks 7 to 8 feet; ears 14- to 18-rowed, 7 to 9 inches long. *Replace with Hybrid Stowell's.*
- GOLDEN BANTAM** 78 Days  
Stalks 4 to 5 feet high; ears 6 to 7 inches long with 8 rows; kernels broad, sweet, very tender. *Replace with Soo-Bred.*
- IMPROVED GOLDEN BANTAM** 82 Days  
A yellow variety good for home garden. Ears large, 6 to 6½ inches long with 10 to 14 rows; kernels medium, tender and of good flavor. *Replace with Tendermost.*
- GOLDEN EARLY MARKET** 72 Days  
Ears 8 to 12 rowed, stalk 4½ ft. Kernels tender and of good flavor.
- GOLDEN GEM** 70 Days  
Plants about 4 feet high, ears 8 rowed with deep yellow kernels.
- GOLDEN GIANT** 82 Days  
A second early variety, producing ears 7 to 8 inches long, 14-rowed; kernels golden yellow, medium in size and of fair quality. *Replace with Top-flight.*

## SWEET CORN — Continued

**MICHAEL-LEONARD'S GOLDEN HUMMER** 60 Days

One of the earliest of the Yellow Sweet Corns for market gardeners as well as home gardeners. Ears  $6\frac{1}{2}$  to 7 inches, 12-rowed; kernel golden yellow, medium deep, broad and of excellent flavor. *Replace with Alphagold.*

**GOLDEN SUNSHINE** 70 Days

An early variety of Golden Bantam type. Stalks  $4\frac{1}{2}$  to 5 feet high; ears 10- to 12-rowed,  $6\frac{1}{2}$  to 7 inches long; kernels large, broad, golden yellow and of good flavor. *Replace with Hybrid Golden Hummer.*

**HOWLING MOB** 85 Days

One of the second early, large eared sorts, very productive, white. Ears 7 to 9 inches long, 12- to 14-rowed. *Replace with Silver Cross Bantam.*

**LEONARD'S EARLY** 60 Days

The stalks are short and stocky, usually producing two large, 12-rowed ears on each stalk. The corn is a waxy white and of sweet flavor. *Replace with Silver Cross Bantam.*

**WHIPPLE'S EARLY YELLOW** 81 Days

While the stalks grow 6 feet or more in height and the 10- to 14-rowed ears are 7 to 8 inches in length this variety matures only three days later than Golden Bantam. *Replace with Aristogold Bantam.*

## CORN — ROASTING EAR

**ADAMS EARLY** 82 Days

Stalk 6 to 7 feet tall, with a good leaf growth; ears 7 to 8 inches long, slender, white, 12 to 14 rows of white, smooth, medium deep, medium broad kernels. Not a true sweet corn but used in the south for roasting ears. *Replace with Silver Cross Bantam.*

**TRUCKER'S FAVORITE** 78 Days

A true favorite with the shippers in the south. The ears are 8 to 10 inches long, 14- to 16-rowed, usually two to the stalk; kernels are white. *Replace with Silver Cross Bantam.*

## POP CORN

**JAPANESE HULLESS (White or Australian Hulless)** 90 Days

Ears  $2\frac{1}{2}$  to  $4\frac{1}{2}$  inches long, well filled with deep narrow kernels, which pop pure white, tender and very sweet. Stalk 5 ft. tall.

**SOUTH AMERICAN YELLOW** 110 Days

Ears 7 to  $7\frac{1}{2}$  inches 12-16 rowed with large yellow kernels that pop to enormous size without hard centers. Stalk dark green about  $7\frac{1}{2}$  ft. tall. Very popular variety.

**MINNHYBRID 250** 85 Days

This hybrid variety is an improvement over Japanese Hulless for yield and popping. Ears 3 to 4 inches long, plump and blunt, kernels are deep pointed with thin skins. Stalks 5 to 6 ft. tall.

**SOUTH AMERICAN HYBRID** 105 Days

Orange yellow kernels somewhat rounded with very high popping expansion. Ears 6 to 8 in. long, 14 to 16 rowed. Vigorous grower, stalk 6 to 7 ft. high.

## CRESS

### CURLED OR PEPPER GRASS

A small plant with frilled or curled leaves which are well liked when young for garnishing and for giving a warm pungent taste to lettuce. It grows best in cool weather and moist soil.

### TRUE WATER

A distinct variety of cress with small, oval leaves. It thrives best when its roots and stems are submerged in water, although a fair growth may be obtained in soil which is kept wet. The seed is usually sown and lightly covered in gravelly, mucky lands along the borders of small, rapid streams.

## CUCUMBER—PICKLING VARIETIES

**CULTURE.** For very early cucumbers sow April 10th in hotbed upon pieces of inverted sod so that they can be transplanted without disturbing roots. When the ground is warm transplant into well prepared hills and protect with glass until hardened. For outdoor planting, wait until the ground is warm then sow 10 to 12 seeds in hills 4 to 6 feet apart each way, thinning 3 or 4 plants to a hill after danger from insects is over. Cultivate as long as possible; gather when large enough for use and to keep plants bearing do not allow them to ripen. Number of days is from planting to first picking.

### CHICAGO PICKLE, B. S.

57 Days

A variety esteemed above all others by Chicago market gardeners and extensively grown for the large pickling establishments. Fruit medium length, square ended, with large and prominent spines. Color a deep green. It combines all the good qualities of an early Cucumber.

### EARLY CLUSTER, B. S.

55 Days

Vines vigorous, producing the bulk of the crop near the root and in clusters.

### EARLY FRAME OR SHORT GREEN, B. S.

56 Days

An excellent sort for table use and for pickling. Fruit straight, handsome, smaller at each end, bright green; flesh tender and crisp and makes fine pickles.

### EVERBEARING, B. S.

56 Days

Small size, very early and enormously productive, and valuable as a green pickle. It continues to flower and produce fruit until killed by frost.

### BOSTON PICKLING OR GREEN PROLIFIC, B. S.

58 Days

Vine makes a heavy, rather short runner growth; fruit short, thick, very slightly tapered, blunt ends, very uniform in shape; fully developed fruit  $2\frac{1}{2}$  x 6 inches. Medium dark, uniform color. Good pickler.

### NATIONAL PICKLE, B. S.

54 Days

Early, high yielding variety especially bred for pickling in the small sizes. Fruit straight, symmetrical, blunt-ended, but not chunky.

### SNOW PICKLE, B. S.

56 Days

A choice pickling variety similar to Chicago Pickle but not so large.

### PRODUCER

54 Days

A pickling variety with compact plants, early and good yielder. Fruits  $5\frac{1}{2}$  inches long x  $2\frac{1}{4}$  inches.

### WEST INDIA GHERKIN

60 Days

A very small, oval, prickly sort, distinct from all others.

## CUCUMBER—SLICING VARIETIES

- A & C, W. S.** 68 Days  
Uniform, nearly cylindrical, very dark green, well rounded at ends. Highly desirable for shipping and for market gardens.
- IMPROVED LONG GREEN, B. S.** 68 Days  
Makes a heavy, long runner growth. Fruit  $2\frac{1}{2}$  x 10 to 12 inches, somewhat tapered, inclined to warts, uniform in shape and size. Color medium dark with light stripe toward blossom end. One of the best of the all-purpose types. One of the most dependable croppers under all conditions of weather and soil types.
- CLARK'S SPECIAL OR IMPERATOR, W. S.** 63 Days  
Fruit weighs  $2\frac{1}{4}$  pounds; handsome, very dark green color; slightly tapered at both ends; flesh crisp and firm and remains edible for a long time; very few seeds.
- CUBIT w.s.** 60 Days  
A new variety of special merit because of its excellent shape and dark green color. Fruits  $9\frac{1}{4}$  to  $9\frac{1}{2}$  inches long x 2 inches, blunt ended, of smooth crisp texture with small seed cavity. Good slicer.
- EARLIEST OF ALL, W. S.** 60 Days  
The earliest of the white spine cucumbers, medium in length, smooth and very symmetrical, while the dark green color is excellent. Its chief use is for long distance shipping; is also adapted for pickling and is grown commercially, to a large extent, in some sections. Size  $7\frac{1}{2}$  x  $2\frac{1}{2}$  inches.
- EARLY FORTUNE, W. S.** 63 Days  
The fruit measures 9 inches long and is slightly tapering. The thick flesh is pure white, firm and unusually crisp with very few seeds. The fruit is of a rich, dark green color which does not fade when shipped to distant markets.
- JAPANESE CLIMBING, B. S.** 60 Days  
Distinct climbing sort, used to cover trellises and fences. Fruit weighs 2 pounds; deep green, quite uniform and attractive. The color of ripe fruit is deep russet, traced with netting.
- LEONARD'S SPECIAL DARK GREEN, W. S.** 72 Days  
Undoubtedly the finest of the long, large varieties. Fruit averages 14 to 15 inches in length, of very dark green color.
- MARKETER w.s.** 65 Days  
Vine vigorous and productive. Fruits 8 inches long x  $2\frac{1}{4}$ . Slightly tapered, dark green in color. Popular for early market.
- PALMETTO, W. S.** 67 Days  
Developed by W. C. Barnes at Clemson College, S. C., from a cross of Puerto Rico 40 x Cubit. Vine similar to Cubit but more deeply lobed leaves and highly resistant to downy mildew, making this new variety particularly valuable for Fall production in southern areas. Fruits slightly pointed towards ends, with dark green exterior and relatively small seed cavity. Size 8 x  $2\frac{1}{4}$  inches.
- STAYS GREEN OR BLACK DIAMOND, W. S.** 60 Days  
 $6\frac{1}{2}$  x  $2\frac{1}{4}$  inches. A good dark green color. Medium in size and a good shipper.
- STAYS GREEN, LONG STRAIN w.s.** 63 Days  
A long strain of Stays Green for fall and early spring planting in the South. Fruits 8 inches long x 2 inches, medium dark green, blunt ends and uniform.
- STRAIGHT 8, W. S.** 66 Days  
Fruit symmetrical, cylindrical, about 8 x  $1\frac{1}{2}$  inches, and well rounded at the ends. Color deep green. Ideal for shipping and home use.

## CUCUMBER — SLICING VARIETIES — Continued

**VAUGHAN OR LONGFELLOW, W. S.** 72 Days

Particularly valuable for home gardens as well as for shipping. Fruit a handsome dark green, retaining the color remarkably long after picking; straight and well filled at ends. Very few seeds.

**EARLY IMPROVED WHITE SPINE** 62 Days

One of the best sorts for table use. Vines are vigorous, fruiting early and abundantly; fruit uniformly straight and handsome, dark green with a few white spines; flesh tender and of excellent flavor.

**WHITE WONDER OR ALBINO, W. S.** 62 Days

Heavy, medium long runner type. Fruit 3 x 7 inches, with straight, blunt ends. Color is creamy white. A useful novelty (as it is fairly well flavored) for slicing and for salads.

**WOODRUFF'S HYBRID, W. S.** 64 Days

Valuable for market garden and shipping; a main crop sort, prolific and attractive. Fruit 8 to 10 inches long, weighing  $2\frac{1}{4}$  pounds; dark green, fairly uniform with rounded ends.

## DANDELION

**IMPROVED LARGE LEAVED**

Thick leaves and deep green color make this far superior to the uncultivated plant. It is compact with an upright, regular tuft at the center.

## DILL

**MAMMOTH**

Plant 2 to  $2\frac{1}{2}$  feet high, with leaves cut into thread-like segments. Seeds very flat, having strong, bitter flavor. Used for flavoring pickles.

## EGG PLANT

**CULTURE.** Treat the Eggplant like a tender tomato that requires even a longer period to mature. After cabbage plants are out of the hothed or greenhouse, which is April, sow eggplant, keeping even the night temperature above 70 degrees. One ounce of seed gives 2,000 plants, and 4 ounces plant an acre. Transplant later to pots or to a 8- or 4-inch stand, and when corn is shoe high, put eggplant outside on rich, well-drained land. Set the plants 2 feet apart in 4-ft. rows, shading or watering the plants if it is sunny or dry. Number of days given is time required from setting plants to marketable fruit.

**BLACK BEAUTY** 90 Days

The fruit is a rich, dark purple, large and symmetrical, maturing a little earlier than Improved New York Purple but usually not quite so large. A very desirable sort for the market as the fruit holds its color a long time.

**FLORIDA HIGH BUSH** 94 Days

Plant, upstanding in growth, bears the fruit off the ground. Fruit, elongated and cylindrical, is purple in color. Highly resistant to blight and drought.

**NEW YORK IMPROVED PURPLE SPINELESS** 93 Days

Plant makes a 2-foot growth, rather inclined to spread. Fruit oval, 6 x 8 inches, and tapered some towards top. Good color though not so dark as Black Beauty. It is a very heavy producer of large fruits.

## ENDIVE

**CULTURE.** Endive, or winter lettuce, used as a salad, as greens or garnishing, is usually planted one-fourth inch deep in a seed bed in mid-summer, and when convenient after a month transplanted to stand 1 foot apart in 18-inch rows. When almost grown and about 2 weeks before ready to use, it is blanched by tying the leaves together with soft cord, or the blanching is done by turning a flower pot or tile over each plant, or by blanching with earth, like celery. The blanching removes the green plant's acrid taste. The plant may be, but seldom is, used as an early spring crop. Three to five pounds of seed plant an acre. Number of days is from planting seed to edible stage.

### **BROAD LEAF BATAVIAN — ESCAROLE** 90 Days

One of the best varieties for salads. Leaves of upright growth, broad, more or less twisted and waved; bright deep green, with a nearly white mid-rib. Inner leaves form a fair head which blanches a creamy white.

### **GREEN CURLED** 95 Days

Plant 16 to 18 inches in diameter, tufty and full in center; mid-rib an inch broad, white, thick, tender and fleshy; blanches readily. Good fall variety.

### **GREEN CURLED PANCALIER** 98 Days

Plants are large, late, coarsely toothed variety similar to Ruffec, but with midrib rose tinted and foliage darker shade of green.

### **MOSS CURLED** 95 Days

More finely curled, with a heavier and more dense plant than Green Curled.

### **WHITE CURLED** 100 Days

The divided leaves are of a very light yellowish-green color which blanches almost white.

### **FULL HEART BATAVIAN** 88 Days

An improved strain of Broad Leaved Batavian, with larger leaf and broader, thicker head at eating stage; earlier in maturity. The plant is medium large with compact, well-blanched heart of infolded broad leaves, thick and buttery in texture. Excellent for market gardeners and shippers.

**FRENCH ENDIVE.** See Witloof Chicory.

## HERBS

In borders and irregular parts of the garden it will prove profitable to grow a few herbs. Their use gives new and unusual flavors, pleasing aromas and perfumes and some medicines that are as serviceable as can be purchased. Exact cultural directions suited to them all is impossible. Give them generally the care given vegetables or flowers. Where the foliage is to be used, cut the young stems on a dry day, wilt in the sun, dry in the shade and either hang up in bunches or store in air-tight glass jars.

### **ANISE**

A hardy annual used for medicinal purposes and for seasoning and flavoring.

### **BALM**

A perennial used for a medicinal tea, and a beverage of lemon-like flavor.

### **BASIL, SWEET**

An annual used for seasoning sauces, soups and meats.

### **BORAGE**

A hardy annual grown for bee pasture; also used for flavoring.

### **CARAWAY**

In its second year this biennial produces seed for flavoring pastry, etc.

### **CATNIP**

Perennial. The leaves are used for seasoning.

### **CORIANDER**

An annual grown for the use of its seed in confectionery and liquors.

## HERBS — Continued

**FENNEL, FLORENCE**

An annual grown for the blanched base of its stem, which when cooked has a sweet taste, a delicate odor and somewhat resembles celery.

**FENNEL, SWEET OR COMMON**

Foliage used as a salad and the seed for flavoring.

**HOREHOUND**

The leaves of this perennial are used in medicines for coughs and colds.

**HYSSOP**

A perennial grown for the use of its foliage in medicine.

**LAVENDER**

A hardy perennial grown for its fragrance.

**SWEET MARJORAM**

Treated as an annual and the younger foliage used for seasoning.

**ROSEMARY**

A fragrant perennial used for seasoning and medicinal purposes.

**RUE**

A hardy perennial to be used with caution medicinally.

**SAFFRON**

An annual used for seasoning, coloring and making cosmetics.

**SAGE**

The well known, hardy perennial used for seasoning.

**SUMMER SAVORY**

The foliage and flowers of this annual used for flavoring and seasoning.

**THYME**

The leaves of this perennial are used for seasoning and medicinally.

**WORMWOOD**

Perennial. A plant of fragrant odor but very bitter taste; leaves used as a tonic.

## KALE OR BORECOLE

**CULTURE.** In Virginia, kale planted in late August has some of its plants thinned out and sent to market within sixty days and the cutting then continues until the field is clean in April. Further north, kale is treated like a cabbage; that is, planted early in spring in hotbeds or out-of-doors and it is used in the fall when light frosts have improved it. Kale is sown in two and three-foot drills and then thinned to six to twenty-four inches, according to varieties. One ounce sows generously one hundred yards and four pounds plant an acre.

**DWARF BLUE SCOTCH**

55 Days

Plant has wide-spreading, finely curled blue-green, plume-like leaves and stands about 14 inches in height.

**DWARF CURLED SCOTCH**

55 Days

Plant low and compact, but with large, bright, deep green leaves, curled, cut and crimped until the whole plant resembles a bunch of moss. One of the best and most dependable types. When well grown and cooked is one of the most palatable of vegetables. Used as greens.

**SIBERIAN OR SPROUTS**

65 Days

In this variety the very large, green leaves are comparatively plain in the center but coarsely cut and frilled on the edge. The plant is low but spreading and very hardy.

**TALL CURLED SCOTCH**

60 Days

About 30 inches tall, with an abundance of dark green leaves, which are densely curled and cut, forming a very beautiful plant. It stands the winter in the middle states without any protection.

## KOHL-RABI

**CULTURE.** Plant in 18 to 24-inch rows as early as the ground can be worked in the spring, thinning out to stand 4 inches apart in the row. Bulbs should be used when they are 2 to 2½ inches in diameter and cooked same as turnips. Sometimes planted in hotbeds and transplanted for very early maturing Kohl-rabi. One-third ounce plants 100 feet and 4 pounds an acre. Number of days given is from planting to edible bulbs.

### EARLY PURPLE VIENNA FORCING

60 Days

Bluish purple, similar to Early White Vienna Forcing except in color.

### EARLY WHITE VIENNA FORCING

55 Days

An extra early variety making bulbs 2-2½ inches in 55 to 60 days after seed is sown outdoors. Has very few short leaves. Bulbs are sweet and tender.

## LEEK

**CULTURE.** This mild member of the onion family is used in soups and salads. Sow one ounce to one hundred feet of row and four or five pounds to the acre, one-half inch deep, as early as the soil can be worked in spring. Thin the plants to a stand of four to six inches in twelve to eighteen-inch rows. It is advisable to throw earth to the plant to blanch it, very much as celery is blanched.

### LARGE AMERICAN FLAG

Makes large, dark green leaves and medium large bulbs on a pure white stem 1½ to 2 inches by 7 inches. It is very hardy and productive.

### LARGE MUSSELBURG

The large variety, often 3 inches in diameter, and becoming very white and tender. A hardy and desirable sort.

### MONSTROUS CARENTAN

A favorite market variety; large, thick stem of mild flavor and attractive appearance.

## LETTUCE

**CULTURE.** As Lettuce will stand considerable freezing, it may be seeded or transplanted out-of-doors as soon as the soil can be worked in the spring. For a succession, replant every 3 weeks till within 60 days of freezing weather. The soil cannot be made too rich and the crop must be grown quickly and unchecked to be of superior quality. Lettuce is frequently started under glass, like Cabbage in hotbeds; in February transplanted to cold frames and hardened to be set out-of-doors in early April. In more southern or milder winter climates, Lettuce may be sown in autumn, protected with sash or coarse litter, and in late winter planted, transplanted or thinned and matured where planted. When the crop is matured under glass it requires much ventilation and little heat and beware of too much water in cloudy weather. In the summer's heat, canvas or a slatted half shade and plenty of water is of value. One ounce of seed gives 2,000 plants and 3 pounds plants an acre. In the seedbed drop 25 seeds to the foot and gently rake it in; failure may result from too deep a covering. Mature Lettuce in 12- to 18-inch rows, giving the loose leaf varieties 8 to 8 inches in the row, and Head Lettuce 6 to 12 inches. Number of days given is from sowing seed to marketable crop.

### BIBB, B.S.

58 Days

A small, early variety of butterhead type, with thick, tender leaves, deep green outside, blanched within to creamy yellow.

### BIG BOSTON, W.S.

76 Days

Head of medium size, compact, with creamy yellow heart. Leaves smooth, glossy, wavy at edge and slightly tinged with brown. Quality excellent. A popular variety for outdoor culture.

### BLACK SEEDED SIMPSON

46 Days

Forms large, loose, yellowish-green leaves, crumpled and frilled, exceedingly tender and crisp. Very popular home garden variety as it is very early.



## LETTUCE — Continued

- CALIFORNIA CREAM BUTTER, B. S.** 75 Days  
Popular with market gardeners and home gardeners. Heads large and globular with golden yellow interior. Leaves large, thick, dark green tinged and spotted with brown.
- CHICKEN, W. S.** 35 Days  
A dark green cutting lettuce; butter type, producing the largest supply of leaves of any known lettuce. Grown for poultry and rabbit feed.
- CRISP AS ICE, B. S.** 76 Days  
Head medium sized. Leaves thick and crumpled, deep green with bronze cast. Fine variety for home gardens.
- EARLY CURLED SIMPSON, W. S.** 45 Days  
Forms a close, compact mass of curly, yellowish-green leaves; early, hardy plant. Leaves are tender, sweet and of excellent quality. An old favorite with home gardeners.
- GRAND RAPIDS, B. S.** 43 Days  
An excellent forcing variety as well as one of the best for outdoor planting. Plant erect; leaves medium light green, very curled and fringed. Stands heat and dry weather well.
- GREAT LAKES** 83 Days  
A heading variety of the Imperial type developed by the U. S. Dept. of Agriculture and Michigan Experiment Station. Leaves large and well-folded; ribs heavy. Shows considerable resistance to tipburn and ability to head under adverse conditions. For local markets.
- ICEBERG, W. S.** 80 Days  
Large curly leaves of bright, light green with a very slight reddish tinge at the edges. The unusual solidity of the heads is insured by the large, white main ribs of the leaves, each of which curves strongly to the center, making it impossible for the leaves to open outward and expose the center which is constantly and thoroughly blanched.
- IMPERIAL NO. 44 B. S.** 82 Days  
One of the best of the New York or Iceberg types for use in the East and South. A good header and resistant to tipburn.
- IMPERIAL NO. 847 B. S.** 84 Days  
Heads medium large, hard and of good quality. Stands up well in warm weather. Resistant to Tipburn.
- IMPROVED HANSON OR NONPAREIL, W. S.** 78 Days  
Plant very large with thick yellowish-green leaves; heads large, firm and cabbage-like with sweet, tender heart. Good for midsummer planting and popular with home gardeners.
- MAY KING, W. S.** 62 Days  
Plant this lettuce for the first early head lettuce. It is equally good for outdoor planting or forcing. The outer leaves have a slightly brownish tinge, while the heart is a beautiful yellow, very crisp and tender.
- MIGNONETTE, B. S.** 60 Days  
Plant medium small, compact, medium brown with dark greenish tinge. Leaves frilled; head globular and firm; heart almost white. Excellent quality.
- NEW YORK OR WONDERFUL, W. S.** 78 Days  
One of the very best of the curled or crisp heading varieties. The head, at first pointed or conical, becomes globular at maturity and is of medium large size, dark green in color and slightly curled on edges. Heads are very hard and well blanched. Quality is excellent, being sweet, yet never buttery in flavor.
- OAK LEAVED** 43 Days  
Leaves are smooth but deeply lobed to resemble the leaf of an oak tree. Plant is medium large size, spreading, fairly dark green. Forms an attractive headlike rosette.

## LETTUCE — Continued

- PENNLAKE, W.S.** 83 Days  
Developed at the Pennsylvania Experiment Station from a cross of Great Lakes x Imperial No. 847. All-America Bronze Medal for 1947. Head compact and well colored, protected from scald by broad wrapper leaves. Less ribby than Great Lakes but equally solid and resistant to tipburn.
- PREMIER GREAT LAKES, W.S.** 75 Days  
Developed from a single plant section of Great Lakes at Pennsylvania State College. All-America Bronze Medal for 1947. Head solid, practically round, up to 7" in diameter and two pounds in weight. Slow to bolt and very resistant to tipburn.
- PRIZEHEAD, W.S.** 47 Days  
The name is misleading as it is a non-heading variety. Very early, quick growing, making a lot of good eating leaves of excellent flavor. Leaves are light green with very ragged brown edges. A most popular variety with home gardeners.
- SALAMANDER OR BLACK SEEDED TENNIS BALL** 68 Days  
Leaves medium green and crumpled. Head globular, hard and buttery, and of good flavor. One of the most popular with market gardeners because it makes heads in hot weather when other varieties fail.
- ROMAINE OR PARIS WHITE COS, W.S.** 77 Days  
The best known and most popular Cos variety in America. It is medium large, medium green, and forms a good, well folded head of fine quality, which blanches readily.
- SLOBOLT** 43 Days  
U. S. Dept. of Agriculture introduction. Similar in type to Grand Rapids but with unusual resistance to bolting in warm weather.
- WHITE BOSTON OR UNRIVALLED, W.S.** 76 Days  
Similar to white seeded Big Boston but with leaves slightly lighter green and free from a brown tint; heart buttery, yellow; of excellent quality. Highly desirable for nearby markets

## MUSTARD

**CULTURE.** Mustard is grown for its seed which is used for flavoring or medicinal purposes or grown for its leaf which is used in salad or cooked like spinach. Sow mustard as soon as the soil can be worked in spring and every three weeks for a succession, or in the South it may be sown in the fall for early spring greens. Cover the seed lightly in twelve to eighteen inch drills. Cut the leaf when not over four inches high. Number of days given is from planting to cutting.

- CHINESE BROAD LEAF** 35 Days  
Plant medium large and vigorous; leaves broad, large, oblong and slightly crumpled; medium green; scalloped at edges. Seed reddish brown in color.
- FLORIDA BROAD LEAF** 40 Days  
Leaf very large, broad, long oval with a smooth saw-toothed edge and broad white mid-rib; bright green in color. Makes a strong, quick growth, spreading out somewhat more than other smooth types. Holds well in hot weather. Seed dark brown in color.
- SOUTHERN GIANT CURLED** 35 Days  
Leaf very wrinkled, blistered and curled at the edges; light yellowish-green in color. Very prolific. Holds fairly well for spring planting but is mainly used in the south as a winter greens crop. Seed dark brown in color.
- LARGE SMOOTH LEAF OR BLOOMSDALE** 35 Days  
An excellent variety with very large, green, comparatively smooth leaves borne well above ground. Quick growing, fairly upright when young but becoming somewhat spreading when matured. Preferred by many because it is more easily prepared for the table than the rougher leaved varieties.

## MUSTARD — Continued

**WHITE LONDON****30 Days**

A rapid growing, upright plant, which quickly goes to seed. Leaves small, dark green, smooth and deeply cut. The large, light yellow seeds are used largely for ground mustard.

**MUSTARD-SPINACH OR TENDERGREEN****30 Days**

Plants of rapid and vigorous growth with comparatively narrow, spoon-shaped leaves of dark green. It will stand longer than most varieties without sending up seed stalks. Combines the flavor of mustard and spinach. Seed dark brown.

## OKRA

**CULTURE.** The pods of this plant are used in a great number of ways throughout the Southern States, and the plant should be more frequently grown in the North. Plant at corn planting time in rich land, sowing the seed thickly in two to three-foot drills, and thinning to an eight to twelve-inch stand, according to varieties. A generous planting is two ounces to one hundred feet and ten pounds to the acre. Okra seed may be planted six seeds to the hill, two to three feet apart and thinning to two plants to the hill.

**CLEMSON SPINELESS****55 Days**

A very uniform spineless strain of the Perkin's long podded type. Pods rich green, straight ridges. Mature pods are about 7 inches.

**DWARF GREEN****52 Days**

An early dwarf growing sort with dark green, fluted, pointed pods 5 to 7 inches long; quite prolific.

**LONG GREEN****55 Days**

Like Dwarf Green but somewhat taller; stalks 4 to 5 feet tall. Pods are like the dwarf.

**PERKINS' MAMMOTH LONG POD****57 Days**

Stalks 4 to 5 feet tall; treelike growth. Pods 6 to 7 inches, pointed, ribbed and usually slightly curved. Tapered and medium dark green in color. Very productive and medium early. Main canning variety.

**WHITE VELVET****57 Days**

Stalk 5 to 5½ feet tall; rather slender, treelike growth. Pods are 6 to 7 inches long, slim, pointed, somewhat ribbed and light cream colored. Productive and early. Fine garden type.

## ONION

**CULTURE.** As soon as the soil can be worked in spring and not after May 1st, sow onion seed in 12 to 15 inch rows, leaving out every 10th row as a weed alley, if preferred. One ounce of seed plants 150 feet and 4 to 5 pounds plants an acre. Seed should be covered firmly one-fourth inch deep. Quantities of manure had best be applied in the year before the planting and much commercial fertilizer, high in potash, harrowed in immediately before seeding. Begin cultivation as soon as the plant can be seen; cultivate frequently and when convenient thin to a stand of two to four inches.

**AUSTRALIAN BROWN****110 Days**

Bulbs 2 to 3 inches; clear amber brown, deep, flat with white flesh; flavor very strong.

## ONION — Continued

- BRIGHAM YELLOW GLOBE** 110 Days  
Bulbs medium sized, globe shaped with rounded base, solid, well covered with tight thick skin, flesh creamy white. Excellent storage variety.
- EARLY YELLOW GLOBE** 98 Days  
Exceptionally good keeper for so early a variety. Bulbs medium large in size, yellow, with clinging skins, solid, uniform and attractive.
- EBENEZER** 110 Days  
Used mostly for growing sets. One of the best keeping onions on the market. Does not run to seed readily. Bulbs 2 to 3 inches, deep flat in shape, deep yellow and very firm, with thick skin.
- MOUNTAIN DANVERS** 100 Days  
Bulbs three-quarter globe shape, slightly flattened at the base; dark yellow and medium early. Productive and of good shipping quality.
- PRIZETAKER** 104 Days  
Very productive, large sized onion, especially good for fall marketing. Bulbs globe shaped, light yellow in color, with white flesh of mild flavor. For best results plant this variety in beds and transplant.
- RIVERSIDE SWEET SPANISH** 105 Days  
A large, well shaped onion, weighing from 1 to 3 pounds, unusually mild but still retaining its genuine onion flavor. Planted at the proper time and thoroughly cured it is a good keeper and will ship as well as any other shipping onion. To produce larger size they should be thinned 6 to 8 inches between plants.
- YELLOW GLOBE DANVERS** 116 Days  
Bulbs medium large, globe shaped, yellow with white flesh, firm and hard; good keeper.



One of Our Onion Seed Crops

## ONION — Continued

**GOLDEN GLOBE — SEMI-BOTTLE ONION** 118 Days

Popular for growing globe-shaped sets of excellent keeping quality; very productive. Bulbs strongly oblong-globe, or bottle neck in shape, rich golden yellow; firm and hard.

**UTAH SWEET SPANISH** 115 Days

Bulbs; selection from Yellow Sweet Spanish, showing better keeping quality; differs from Yellow Sweet Spanish in having amber skin and smaller neck.

**YELLOW GLOBE, SOUTHPORT** 116 Days

A large, perfectly shaped globe onion and an excellent one for keeping throughout the winter. A very heavy cropper, a good dark yellow color and handsome in appearance.

**LARGE RED WETHERSFIELD** 104 Days

Bulbs 2 to 2½ inches thick, flat, deep red; flesh pinkish-white and very firm. Used extensively for growing sets.

**RED GLOBE, SOUTHPORT** 115 Days

A perfect globe shape, deep red skin and red flesh tinted white. Skin is thin, tough, close fitting over medium thin layers of firm, fine grained, strongly flavored flesh. Makes a medium large bulb, averaging 2½ to 3 inches in diameter. One of the best winter keepers.

**WHITE EBENEZER** 100 Days

Bulbs semi-flat, pure white, solid, mild flavored, good keeper. Popular variety for growing onion sets.

**WHITE PORTUGAL OR SILVERSKIN** 100 Days

A medium thick, flat shape when mature, averaging 3 inches; white skin and flesh, sometimes green tinted; thin layers of firm, crisp, fine grained flesh, quite mild in flavor. Skin is fairly tight and tough. Stores well for a white onion. Used mainly for growing onion sets and small pickling onions.

**WHITE GLOBE, SOUTHPORT** 112 Days

Bulbs round and of good size; solid, pure white skin, thin and brittle. Good for winter storage. Also used by market gardeners for early bunching.

**WHITE SWEET SPANISH** 112 Days

Bulbs large, globular shape with small neck; pure white. Flesh clear white, firm and mild. Very attractive and a fair keeper.

**CRYSTAL WHITE WAX** 90 Days

This variety is popular in the south where the transplanting method of culture is practiced. A large, beautiful, silvery white skinned variety of handsome, flat shape and of very fine flavor and quality.

**MICHAEL-LEONARD'S NEW BUNCHING ONION**

An excellent non-bulbing variety producing an abundance of sweet and tender bunching onions.

**WHITE LISBON**

A variety grown largely as a bunching onion. When mature the round, white bulbs are about 3 inches in diameter.

**WHITE QUEEN** 92 Days

A fine, early, silver-skinned variety of beautiful form and rapid growth, possessing fine keeping qualities.

## ONION — Continued

### YELLOW BERMUDA, STRAW COLORED

90 Days

A pale or straw colored onion grown extensively in the Bermudas and southern part of the United States for early shipping to northern markets.

*See page 63 for Onion Sets*

## PARSLEY

**CULTURE.** Parsley used for garnishing and for seasoning can be planted as soon as the soil can be worked in spring. Cover the slow germinating seed one-fourth inch deep in 12- to 18-inch rows. One-fourth ounce sows 100 feet and 3 to 5 pounds plant an acre. To improve the appearance of the crop, trim the plants with a sickle 2 or 3 times during their growing season and at the approach of winter transplant to cold frames or a sunny window. Parsley may be mulched with coarse litter and wintered for spring use till the new crop begins.

### CHAMPION MOSS CURLED

Leaves are a uniform dark green color, very finely cut and so closely curled as to resemble bunches of moss. One of the most useful and decorative sorts; fine for bunching.

### DOUBLE CURLED

The standard sort for outdoor culture; also highly prized by market gardeners for the greenhouse.

### HAMBURG OR ROOTED

Mostly grown for the thick, fleshy roots. The roots are nearly white in color, growing about 6 inches long and about 2 inches thick around the neck and gradually tapering toward the base. The flesh is white and somewhat dry. Used for flavoring soups, stews, etc.

### PLAIN OR SINGLE

Leaves flat, deeply cut but not curled. Often preferred on account of the very dark green color as well as the hardiness of the plant and its superiority for flavoring.

### PARAMOUNT

A new and improved triple-curved variety with unusually rich dark green foliage tightly curled. Ideally suited for home and market gardens.

## PARSNIP

**CULTURE.** Plant Parsnip seed as early as the soil can be worked in spring and do not cover this slow germinating seed deeper than one-fourth inch. Use 18- to 24-inch rows, thinning the plants to a 4-inch stand. One-half ounce of seed sows 100 feet and 3 to 5 pounds plant an acre. This crop requires the entire season to mature, and as frost improves the roots, they may be left in the ground all winter. Both as to quantities and its feeding values, the Parsnip is a valuable stock feed.

### ALL-AMERICA

95 Days

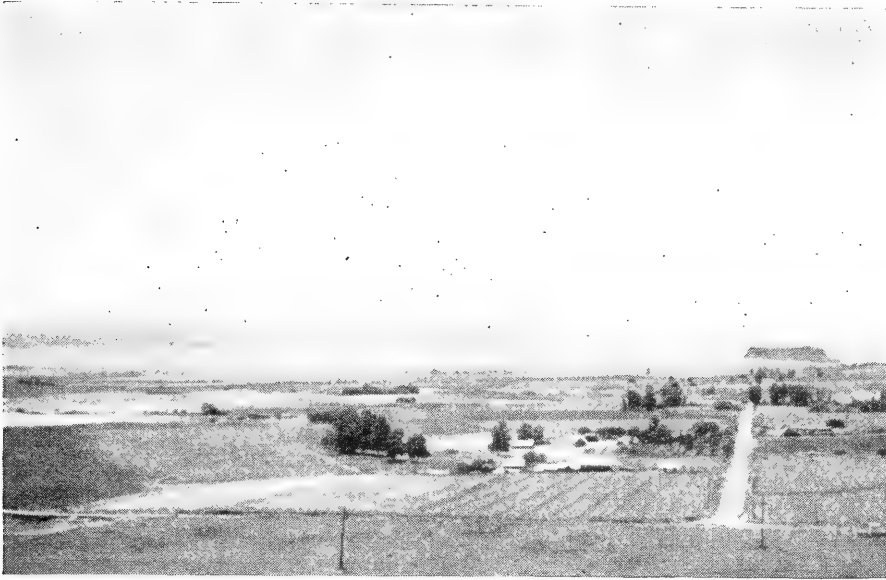
Root large and broad-shouldered, of medium length, fine texture, white color, and with small core; very free from side rootlets.

### IMPROVED HOLLOW CROWN (Guernsey)

Roots 12 to 16 inches long, white smooth, tender, sugary and of most excellent flavor. Very hardy and will keep through winter without protection.

### WHITE QUEEN

Similar to Improved Hollow Crown. Free from side roots and very white; an excellent market variety.



Seed Production Field in Idaho

## PEAS—SMOOTH SEED

**CULTURE.** All varieties of Peas, regardless of height, may be grown successfully without a trellis or support. As Peas vary in height from 1 to 6 feet, it follows that the distances in the row and apart in the row should vary. Dwarf or half dwarf varieties are best planted in double or companion rows 6 inches apart to support and shade each other in their growth; then leave a space of 18 to 30 inches, according to height of the variety and repeat the double row. The tall varieties that may be given support are planted in a single row, the space between the rows somewhat less than the height of the variety. Work a good complete commercial fertilizer into the soil then drop 10 to 20 dwarf peas to the double row of 6 to 10 tall peas to the foot of row, using 2 pounds to 100 feet and 150 to 180 pounds to the acre. Plant all Peas about 3 inches deep in soil that has been deeply plowed, which gives the Peas the cool, damp climate they prefer. Lightly harrow or rake the soil when the Peas should be breaking through and continue to cultivate until the vine stops the work. All Peas stand some frost and may be planted as soon as the soil may be worked in the spring. Peas should be planted frequently for a succession. The early varieties are planted in August for a late autumn crop. For quality's sake pick Peas before they crowd the pod and pick all pods as rapidly as produced to somewhat extend the plants bearing. As all varieties of Peas lose their characteristics when left without that selection given by expert Seedsmen, it is necessary to go to a reliable source for seed peas.

**NOTICE**—The number of days given is taken from our trial ground records in Wisconsin. Weather conditions, variations in soil and cultivation, as well as difference in latitude, will make either a longer or shorter period of growth.

### ALASKA WILT RESISTANT H.F. 30

52 Days

Our own introduction. This strain is more productive, has better color and flavor than the Alcross strain. Canning test made by Wisconsin Experiment Station during 1937 showed that this strain outyielded the best Alcross strain by 20%, and the canned Peas rated better in color.

### AMEER OR CLAUDIT

60 Days

Resembling the Alaska in appearance, 3 feet in height with pale green foliage. Pods 3 inches in length, pointed, dark green in color. Seed blue, dented and medium pitted.

## PEAS — SMOOTH SEED — Continued

### FIRST AND BEST OR EXTRA EARLY

54 Days

Early, productive and hardy with a strong vigorous vine, which is light in color and uniform in growth, 2½ to 3 feet in height and bearing straight pods 2½ to 2¾ inches long, round, light in color and blunt at the ends. Seed round, rather small and white in color.

### LAXTON'S SUPERB OR EARLY BIRD

60 Days

A hardy early variety, growing 18 to 20 inches in height, with dark green, 4-inch, semi-broad, pointed pods of fair quality. Desirable as a gardener's first crop pea, standing very early planting. Seed dark green, dimpled.

### M-L 33

55 Days

Vine height 2 to 2½ ft., vigorous growth with sturdy stem with pods of 7 to 9 peas. More tender than Alaska and has a greener hull. Excellent variety for garden run canned peas.

### MAMMOTH PODDED EXTRA EARLY

60 Days

An early, large podded, productive sort for home and market gardens. Vine 3 feet in height, medium heavy, and deep green in color. Pods 3½ inches long, light to medium green, broad, round and blunt. Contain 6 to 7 peas of fair quality. Seed round, dimpled, cream colored.

### MARROWFAT, WHITE

78 Days

Vines hardy, strong, vigorous and bearing broad, thick, leathery pods near the top of the vine, which contain peas of a fair quality. Vine 50 to 60 inches in height. Foliage light green in color; pods 3 inches long, blunt and light green in color. Seed large, smooth, white.

## PEAS—WRINKLED SEED

### ALDERMAN OR DARK PODDED TELEPHONE

70 Days

A large podded pea of the Telephone type, very robust and vigorous as to vine, which attains a height of 48 inches; foliage medium green. Pods 5 inches long, broad, pointed, dark green in color. Seed green, wrinkled, large.

### AMERICAN WONDER

57 Days

Vigorous vines with a luxuriant foliage, growing from 12 to 14 inches high. On account of its dwarf habit of growth it is very desirable for private garden use. Pods are light colored, straight, round, about 2½ inches long and blunt at the end. Seed is wrinkled, green, medium in size and square at the ends.

### BLUE BANTAM

60 Days

An especially dark green strain of Laxtonian.

### CHAMPION OF ENGLAND

76 Days

Strong and vigorous in growth, 54 to 60 inches in height; foliage medium green. Pods 2½ to 3 inches long, blunt, and medium dark green in color. Seed large, green, very much wrinkled.

### EVERBEARING

76 Days

Vigorous and branching in habit and growth; height 3 feet. Pods 2¾ to 3 inches long, broad, light colored and blunt. Seed green, wrinkled, large in size.

### MCLEAN'S LITTLE GEM

62 Days

Strong and vigorous in growth, producing vines from 22 to 24 inches in height; dark foliage. Pods are almost straight, 2½ to 2¾ inches long, light in color and blunt at the ends. Seed is green, wrinkled and medium in size.



## PEAS — WRINKLED SEED — Continued

**GILBO**

72 Days

Resistant to Fusarium Wilt. Plant heavy, dark green. Pods round, dark green, pointed, contain 8-9 large peas of good quality. Height of plant about 25 inches. Seed green, large.

**GIANT STRIDE**

76 Days

Large podded shipping variety. Height 28 inches, vines dark green and vigorous. Pods pointed 5 inches long, dark green, plump, slightly curved.

**GRADUS OR PROSPERITY**

62 Days

A standard, early, large podded variety, very popular with market gardeners. Height 3 feet. Vine and foliage moderately heavy and medium green. Pods medium green,  $3\frac{3}{4}$  inches long, semi-round, straight and pointed, containing 6 to 8 large, very sweet, medium green peas. Moderately productive and of high quality.

**HUNDREDFOLD**

61 Days

Vines 18 inches tall, dark green, with very attractive large pods; excellent for home garden or shipping.

**LAXTON'S PROGRESS**

58 Days

Dark green peas, sweet and luscious. The dwarf, vigorous vines average 18 inches in height and carry enormous crops of large, deep bluish-green pods. These measure 4 to  $4\frac{1}{2}$  inches long and are tightly packed with 8 to 10 luscious peas.

**LAXTONIAN**

58 Days

Vines vigorous and productive, growing to a height of 18 inches; foliage dark green. Pods about 4 inches in length, dark green, straight and pointed. Seed light green, large wrinkled, flattened and irregular in shape.

**LITTLE MARVEL**

60 Days

An extra fine dwarf sweet pea. Pods somewhat larger than Nott's Excelsior. A fine variety for either private or market garden. Height, 16 to 18 inches; foliage and pods very dark green. Pods 3 inches long, nearly round and square ended, containing 7 very dark green peas of high quality. Very productive. Seed light green, medium size, squared, wrinkled.

**MICHAEL'S EARLY MARVEL**

57 Days

A fine dwarf sweet variety related to Little Marvel but three days earlier and with broader pods. Height 16 inches, foliage dark green and drought resistant. Pods mostly 4 inches long with 8 peas to the pod principally.

**MORSE'S MARKET**

70 Days

Plant medium green, sturdy, somewhat coarse. Pods dark green, single, plump, curved, pointed, contain 7-9 peas. For market gardens and shipping. Seed large.

**NOTT'S EXCELSIOR**

50 Days

Resembling Gems in habit but more dwarf and uniform in growth. Height 14 to 17 inches with rather light foliage. Pods are light in color, round, about  $2\frac{1}{2}$  inches long, blunt at the ends. Seed green, wrinkled, medium in size and square at the ends.

**PERFECTION**

69 Days

An excellent canners' sort. Vine 30 inches tall, medium dark green, fairly heavy growth. Pods 3 to 4 inches, medium green, slightly curved and blunt. Our strain is mostly twin podded and wilt resistant.

## PEAS — WRINKLED SEED — Continued

- POTLATCH** 70 Days  
Strong, vigorous vines of even growth, 24 inches in height, with luxuriant, dark foliage. bearing pods medium green in color, 4 to 4½ inches in length, broad and pointed at the ends. Seed green, wrinkled, large in size.
- PRINCE OF WALES** 75 Days  
A desirable sort for canning large sized garden-run peas; resistant to Fusarium Wilt. Pods single and double, light green, blunt; contains 4-6 large peas. Seed large, cream and green. Plant height about 40 inches.
- STRATAGEM** 72 Days  
A vigorous, hardy and luxuriant vine, bearing large pods which contain peas of excellent quality. A heavy cropper although it has a tendency to sport. Vines 22 inches; foliage dark green; pods 4½ inches long, straight, broad, pointed, dark green in color. Seed very large, green, wrinkled.
- SURPRISE WILT RESISTANT** 60 Days  
The vine, which is 28 to 32 inches tall, medium green foliage and slender stem, produces pods which are 2½ to 3 inches long, straight, light green, plump and blunt, borne singly, mature uniformly; contain 6 to 8 peas. Seed is medium small, finely wrinkled, round, medium green.
- SUTTON'S EXCELSIOR** 62 Days  
Similar in habit of growth to Nott's Excelsior but bearing very large, broad pods well filled with large peas. Vines 18 to 20 inches high, medium light in color with pods 3½ to 4 inches long, light in color and blunt at the ends. Seed green, wrinkled, medium in size.
- DWARF TELEPHONE OR DAISY** 70 Days  
Vines 20 to 22 inches high with rather coarse foliage, medium light green, bearing pods broad, straight and about 4 inches long, pale green in color and well filled with peas of excellent flavor. Seed pale green, large, wrinkled.
- TELEPHONE** 70 Days  
Same as Alderman.
- THOMAS LAXTON, Wilt Resistant** 60 Days  
A very popular variety. Height 2½ to 3 feet; vine and foliage moderately stout, medium green. Pods medium green, 3½ inches long, straight, nearly round and square ended, containing 7 medium dark green peas of superior quality. Seed large, cream colored, wrinkled.
- WISCONSIN EARLY SWEET (Wilt Resistant)** 60 Days  
Vine 28 to 30 inches; medium green in color, thin stem. Early in maturity. Pods borne singly, light green, 2½ to 3 inches, blunt. Peas small and of good quality. Seed small, wrinkled, green.
- WORLD'S RECORD** 60 Days  
An improved type of Gradus, being slightly earlier, more dwarf, true to type and productive. Height 2 to 2½ feet. Vines moderately stout, medium green. Pods medium green, 4 inches long, very broad, pointed and well filled with 7 to 9 very large, dark green peas of exceptional quality. Seed large, cream and green, wrinkled.

## PEAS — EDIBLE POD

- DWARF GREY SUGAR** 66 Days  
The old variety of the edible podded sort and used in no other way. Grows about 2½ feet high and is remarkable for its earliness. Pods are broad, flat and crooked, containing 5 to 6 peas. Seed is brown and round.
- MAMMOTH MELTING SUGAR, WHITE SEEDED EDIBLE POD** 72 Days  
Large edible pods, 4 to 4½ inches long and 1½ inches broad. Vine grows to a height of 48 inches. The seed is large and a creamy white in color.
- MAMMOTH LUSCIOUS GRAY SEEDED** 72 Days  
Like Mammoth Melting Sugar except that it is gray seeded and purple blossomed.

## PEPPER

**CULTURE.** The pods of the pepper are used in sauces, salads, soups or as a seasoning and the large mild varieties called mangoes are eaten from the hand or variously stuffed and prepared with cabbage, tomatoes or meat. The pods of green peppers are green until in ripening they turn red or yellow, according to the variety. Start pepper in hotbeds, maintaining a temperature of 70 degrees and in other ways treat like a tomato. Set out-of-doors after frosts in 30-inch rows, giving each plant 18 inches in a row. One ounce of seed gives 2,000 plants and one-quarter pound plants an acre. Number of days given is from setting plants to ripe fruit.

- ANAHEIM CHILI** 80 Days  
Plant 2 feet high, medium light green and medium heavy growth. Fruit 1 x 7 inches average, bright red from a deep green, slim, tapered to a point. Quite productive and medium hot in flavor. Largest of the milder chilis. Used as an all purpose type.
- BANANA OR LONG HOT YELLOW** 70 Days  
Plant 2½ feet high, medium light green, upright and fairly bushy growth. Fruits long, slim, 1½ x 6 to 7 inches, ranging in color from a deep yellow to a bright orange to a bright red as they ripen, and tapering to a point. Very prolific, early, quite thick walled for the type and hot in flavor.
- SWEET BANANA** 65 Days  
Plant 20 to 24 inches tall, upright, dark green foliage, heavy. Fruit 6½ to 7½ inches long x 1½ inches. Sweet, medium flesh wall light yellow turning to bright red at maturity.
- BELL OR BULL NOSE, HOT** 60 Days  
The earliest of the "bell" type peppers. The ribs are quite pungent, while the rest of the fruit is mild. The medium sized square fruits are deep green when immature and scarlet when ripe.
- BELL OR BULL NOSE, SWEET** 60 Days  
Plant 2½ feet high, medium light green, upright, strong growing, bushy. Fruits 3 x 4 inches, squared, usually four lobes, inverted bell shape; flesh quite thick, mild in flavor and is a good garden strain for salads and stuffing.
- CALIFORNIA WONDER** 76 Days  
Plant 2½ feet high, medium light green, making a strong, upright growth. Fruits are large, 3½ to 4 x 5 inches, squared, usually four lobes, very thick walled, sweet and mild in flavor. From a deep green to a bright red in color.
- CALWONDER EARLY** 69 Days  
Fruits 3 and 4-lobed, upright, very attractive. Smooth, uniform, deep green changing to bright crimson at maturity; thick, sweet and mild. Packs well because of uniformity. Length about 4 inches; diameter at stem 3½ inches.
- LONG SLIM CAYENNE** 70 Days  
Same as Mammoth Long Cayenne except in size; ½ inch in diameter, 4 to 5 inches long.
- MAMMOTH LONG CAYENNE** 70 Days  
A long, slim, pointed pod, bright red in color when ripe, and extremely strong and pungent. Size ¾ to 1 inch in diameter, 5 to 6 inches long.
- SMALL OR SHORT CAYENNE** 70 Days  
Same as Mammoth Long Cayenne except in size; ¼ inch in diameter, 1 to 1½ inches long.
- CHINESE GIANT** 80 Days  
Plant 2½ to 3 feet high, medium light green, strong, bushy growth. Fruit is large, 4 x 5 inches, squared, usually four lobes, deep green to a bright red color. Quite productive with a good thickness of side wall. Sweet and mild in flavor and used for a stuffing type.

## PEPPER—Continued

- GOLDEN QUEEN** 80 Days  
Stalk 2 feet; medium dark, heavy growth, very bushy. Fruits medium large, 3 x 4 inches, slightly tapered, mostly four lobes, medium thick wall, dark green to a golden yellow when ripe. Mild in flavor.
- HARRIS EARLY GIANT** 65 Days  
Stalk 2 feet; medium dark with a rather spare leaf growth. Fruits are medium large, 3 x 4 inches, squared, usually four lobes, medium thick side wall, bright cherry red color. Sweet and mild.
- KING OF THE NORTH** 65 Days  
A short season variety with large fruits. The medium thick flesh is dark green at first, turning to deep rich red when ripe. Flavor mild and sweet.
- NEAPOLITAN** 60 Days  
Stalk 2½ feet; dark green, upright, treelike growth. Fruits 2 x 4 inches, tapered slightly, usually four lobes, thin wall, deep green to a bright yellow to a bright red when ripe. Sweet, mild flavor and quite a heavy producer.
- OSHKOSH** 70 Days  
A medium early productive sort, deep glossy green in color turning to canary yellow at maturity. Fruits mild, fairly smooth, broad at base tapering to blunt point. Length 4½ inches; diameter at stem 3½ inches.
- PIMENTO** 75 Days  
Plant 2½ feet; medium dark, upright and very bushy. Fruits 2 x 2½ inches, heart shaped, smooth, without lobes or side ridges, deep green to brightest red. Very sweet and mild and a heavy producer. Excellent canning variety.
- RED CHILI** 85 Days  
Plants low growing and bushy. Fruits borne upright, very numerous, 2 to 2½ inches long, ¾ inch thick, tapered; waxy pale yellowish-green, becoming rich red; very pungent.
- RUBY GIANT** 75 Days  
An excellent, large, mid-season variety for home and market gardens. Plant vigorous, erect, very productive. Fruits slightly tapered, four lobes, deep green changing to bright red; flesh thick, sweet and mild.
- RUBY KING** 70 Days  
Plants are about 2½ feet high, vigorous, compact and productive. Fruits are 4 to 4½ inches long and of deep green color when young, bright red when ripe. The flesh is thick and mild flavored. One of the best varieties for mangoes or stuffed peppers.
- SUNNYBROOK OR TOMATO PEPPER** 75 Days  
Fruits 2½ to 3 inches in diameter and 2 to 2¼ inches deep from stem to blossom end. The skin is smooth, glossy and of a brilliant scarlet. The flesh is unusually thick, in well developed fruits measuring ⅝ inch in thickness.
- SWEET MOUNTAIN** 75 Days  
Plant 30 inches tall with medium light, upright bushy growth. Fruit medium large, 2½ x 5 inches, squared, slightly tapered, deep green to a very bright red in color, usually 3 or 4 lobes, high side ridge, medium thick side wall. One of the sweetest and mildest peppers.
- WORLD BEATER** 73 Days  
Fruits four-lobed, 5 inches long by 3½ inches in diameter; flesh very thick and mild. Exceedingly productive and a good shipper.

## PUMPKIN

**CULTURE.** The finer varieties of pumpkins are used for pies and the coarser ones for stock feeding. While the pumpkin may be grown very much as cucumbers are grown in a garden, they are more frequently planted in the field with corn, where several seeds are dropped in each fourth hill. Planted alone, six to ten seeds are covered one inch deep in hills eight to ten feet apart and thinned to two to four plants to the hill. One ounce plants twenty-five hills and two to four pounds of seed generously plants an acre. Number of days given is from planting to ripe fruit.

**CONNECTICUT FIELD 120 Days**

The standard cornfield variety, producing large, orange colored pumpkins which average 25 pounds in weight, round and flat on ends with smooth, hard rind. Flesh is thick, dry and sweet — excellent for canning and stock feeding.

**GOLDEN CUSHAW 112 Days**

The skin is golden yellow; vines very prolific; fruits rather small and slender.

**GREEN STRIPED CUSHAW 115 Days**

Fruits very large with crooked neck. Color creamy white, irregularly striped or traced with green. Flesh light yellow, very thick, rather coarse but sweet. Very productive.

**WHITE CUSHAW 112 Days**

It is similar to the Green Striped strain except somewhat smaller and the skin is pure white; also the neck is shorter than in other Cushaws.

**LARGE CHEESE OR KENTUCKY FIELD 120 Days**

Used largely for canning and stock feeding. The fruits are flat, dull orange; flesh yellow, thick and tender.

**MAMMOTH POTIRON OR KING OF THE MAMMOTH 120 Days**

The flesh and skin are of a bright golden yellow color, flesh fine grained and of excellent quality. This enormous variety has been grown to weigh 100 pounds.

**ORIENTAL PIE 115 Days**

Shaped somewhat like the Cushaws and grows to a large size; skin deep green with dark stripes; flesh deep yellow and of high quality. Seeds sculptured like Chinese letters.

**SMALL SUGAR OR PIE 115 Days**

A rather small but handsome variety. Shape round; skin deep orange colored; flesh fine grained, sweet flavored. Superior for pies.

**TENNESSEE SWEET POTATO 110 Days**

Fruits are bell shaped of medium size with white skin slightly mottled with light green stripes, averaging 15 pounds in weight. Flesh is creamy white, very thick, fine grained and sweet.

## RADISH

**CULTURE.** Plant Radishes on a light soil if a choice is possible and every second week for a succession from the time the soil can be worked in spring till the first light frost. Plant in 12 to 18 inch rows, cover the seed one-half inch deep and permit ten radishes to grow to the foot; use 8 to 12 pounds of seed to the acre. Radish seed, which germinates quickly, may be sown with some slow germinating seed that the cultivation of that crop may begin the earlier or the quicker growing radish may be grown between the rows of some slow growing crop that later requires considerable space. Number of days given is from planting to roots of bunching size.

- CHERRY BELLE** 22 Days  
A very early short top variety well adapted for greenhouse or hotbed forcing. All-America Selections B.M. 1949. Shape, globular, small uniform, with a very fine root. Color, cherry red of a medium shade.
- CINCINNATI MARKET** 28 Days  
Tops short and small; roots 6 to 7 inches long, pointed, bright scarlet; flesh white, crisp and mild.
- COMET** 23 Days  
Market and shipping radish. Although tops are short they are slightly heavier than Scarlet Globe. Stands unusually long before becoming pithy. Bunches well. All America Selections S.M. 1936. Shape, short oval, smooth. Color, rich scarlet; very attractive; flesh white, crisp, mild.
- CRIMSON GIANT** 30 Days  
Largest of the round reds. Tops medium small, very upright with medium light, short stem. Roots go up to 1½ inches without being pithy, globe shaped, deep red color, rather thick skin. Flesh white, tender and crisp.
- EARLY SCARLET GLOBE** 24 Days  
This excellent, bright, rich scarlet colored, globe shaped radish is the finest for forcing as it will bear the heat required for forcing without becoming pithy or losing its excellent flavor. Has a small top and certainly is the variety needed by the gardener who forces for early market. Also an excellent sort for outdoor planting.
- EARLY SCARLET TURNIP** 26 Days  
Early variety for forcing or outdoor culture. Tops medium; roots small, turnip shaped, almost round, bright scarlet in color, crisp and tender.
- EARLY WHITE TURNIP—HAILSTONE** 24 Days  
The earliest white variety. Tops medium large; roots turnip shaped; flesh white, crisp and tender.
- FRENCH BREAKFAST** 25 Days  
Popular home garden and early market variety. Tops medium small; roots 1½ to 2 inches long, thicker towards bottom, scarlet with white tip; flesh white, crisp and of excellent quality.
- IMPROVED CHARTIER** 34 Days  
Decidedly distinct in appearance, the color at the top being crimson running into pink about the middle and from thence downward it is a pure waxy white. Roots 7 to 8 inches long; flesh crisp and tender.
- LONG BRIGHTEST SCARLET WHITE TIPPED** 25 Days  
This is the earliest of the long red varieties. Tops medium large; roots 4½ to 5 inches long, tapering to a point; flesh white and crisp.
- LONG SCARLET SHORT TOP** 27 Days  
This bright scarlet, small topped sort is about 6 inches long, is uniformly straight, smooth, brittle and crisp, and is a standard and excellent variety for private garden or market use.
- LONG WHITE VIENNA OR LADY FINGER** 27 Days  
A very excellent white variety with long, very smooth white roots which are crisp and tender. One of the most desirable of the white summer sorts.

## RADISH — Continued

**SAXA**

22 Days

Principally a forcing sort, but also used for out-of-doors planting. Tops very small; roots small, spherical,  $\frac{7}{8}$  inch in diameter, bright scarlet in color; flesh white, crisp and mild.

**SPARKLER WHITE TIPPED**

26 Days

Similar to Scarlet Turnip White Tipped as to size and time of maturity. The root, however, is more round or ball shaped, and the white extends farther up on radish.

**WHITE ICICLE**

27 Days

Without doubt the finest early white variety and very popular with home gardeners. Tops medium; roots  $5\frac{1}{2}$  to 6 inches long, tapering, pure white, very crisp and mild.

**WHITE STRASBURG**

39 Days

Large, showy, half long sort. Roots 5 to 6 inches long,  $1\frac{1}{2}$  inches thick at the shoulder, tapering to a point; flesh white, firm and mildly pungent.

**WHITE STUTTGART**

41 Days

Tops medium large; roots top shaped, 3 to  $3\frac{1}{2}$  inches long, 3 to 4 inches in diameter, white and mildly pungent. An excellent variety for late summer and can be used for winter storage.

**WHITE TIPPED SCARLET TURNIP**

25 Days

One of the handsomest of the turnip radishes and a great favorite in many large markets for early planting outdoors. Roots slightly flattened on the under side; color very deep scarlet with a white tip; flesh white and of the best quality.

## RADISH — WINTER VARIETIES

The winter Radish is sown at late turnip planting time and used in the autumn or stored for winter like the turnip.

**CALIFORNIA MAMMOTH WHITE**

61 Days

Large, heavy tops, light green in color. Roots large, 3 x 10 inches, stump rooted, thickest at the bottom end; small tap root. White skin; white flesh, crisp and hard but rather coarse grained and strongly flavored.

**LONG BLACK SPANISH**

62 Days

One of the best winter varieties. Tops large and heavy; roots 7 to 9 inches long, 2 inches in diameter and tapering to a point; skin black; flesh white, very firm and pungent.

**ROUND BLACK SPANISH**

60 Days

Roots round, sometimes top shaped, 3 to 4 inches in diameter; skin black; flesh white, firm, crisp and highly flavored. An excellent sort for winter as the roots keep a long time.

**ROSE CHINA WINTER**

53 Days

Roots cylindrical or largest at the bottom, tapering abruptly to a small tip; skin very smooth and of a bright rose color; flesh firm, crisp and tender, quite pungent.

**WHITE CHINA OR CELESTIAL**

60 Days

The root is 8 inches long, cylindrical, with beautiful white skin and flesh so white as to attract attention even among the other white varieties. The flesh is very tender and of excellent quality.

## RHUBARB

**CULTURE.** Rhubarb succeeds best in deep soil. The richer its condition and the deeper it is stirred the better. Sow in drills an inch deep and thin out the plants to six inches apart. In the Fall transplant the young plants into very highly manured and deeply stirred soil, setting them 4 to 6 feet apart each way and give a dressing of coarse manure every spring. The stalks should not be plucked until the second year and the plant never allowed to exhaust itself by running to seed.

### VICTORIA

Stalks large, rich red in color, very thick and tender. The best variety.

## SALSIFY OR VEGETABLE OYSTER

**CULTURE.** Salsify succeeds best in a light, well enriched soil, which should be stirred to a good depth. Coarse and fresh manure should be avoided as it will surely cause the roots to grow uneven and ill-shaped. Sow early and quite deep, giving the general culture recommended for parsnips. The roots are perfectly hardy and may remain out all winter. Store a quantity for winter use in a pit or cellar in damp earth or sand.

### MAMMOTH SANDWICH ISLAND

Roots 7 to 8 inches long, 1 to 1½ inches thick; skin almost white; flesh mild and delicately flavored.

## SORREL

**CULTURE.** Sow in spring in drills 18 inches apart, in a rich soil, and keep the flower stems cut off as they appear. Remains in the ground, needs to be taken up and divided only once in 4 or 5 years. To be cut and cooked precisely like spinach. Also used for soups. Inasmuch as the hot sun tends to increase its acidity a Northern exposure is preferable.

### LARGE LEAVED FRENCH

Standard home garden and market sort, producing large, thick, bright green arrow-shaped leaves of mildly acid flavor.

## SPINACH

**CULTURE.** As early as the soil can be worked, sow it one-half inch deep in fourteen-inch rows, using one ounce of seed to one hundred feet, and in the second week will appear a tiny plant with two very narrow leaves that do not resemble the true leaves that follow. Cutting should begin forty-five days from sowing. It is impossible to put spinach on too rich soil, and nitrate of soda is used on it with profit.

### GIANT NOBEL THICK LEAF

42 Days

Plants large, vigorous and slow to run to seed. Very heavy yielder. Leaves medium green, thick and tender. The best thick leaved variety.

### HEAVY PACK

45 Days

Plants are large and spreading; leading canning variety because of heavy yield. Leaves very large, broad, arrow shaped with rounded tip, thickest of all large leaved varieties, dark green, partially crumpled.

### KING OF DENMARK

44 Days

The best long season spinach, remaining two weeks longer than others before bolting to seed. Plant vigorous and spreading; leaves large, rounded, crumpled and blistered, deep green in color.

### NEW ZEALAND

This branching plant—a spinach in its use but not in its growth—frost-kills but grows luxuriantly in the summer heat. Plant these large seeds three in a hill, 3 x 2 feet apart or start the plant under glass and transplant.



## SPINACH — Continued

- OLD DOMINION (BLIGHT RESISTANT)** 40 Days  
A cross between Virginia Blight-Resistant Savoy and King of Denmark. Large, dark green, heavily crumpled leaves. Long standing and resistant to mosaic. Used mostly for an early spring crop.
- PRICKLY WINTER** 43 Days  
A very hardy variety and will withstand the severest weather with only a slight protection of leaves or straw. The seed is prickly; leaves triangular, oblong or arrow shaped. It is used extensively for fall sowing.
- SAVOY LEAVED BLOOMSDALE** 39 Days  
One of the best to plant in autumn for early spring use. Plant of up-right growth with narrow, pointed leaves, which are curled like those of the Savoy Cabbage. It grows quickly to suitable size for use but soon runs to seed.
- SAVOY BLOOMSDALE BLIGHT RESISTANT (VIRGINIA SAVOY)** 39 Days  
Used principally in sections where blight occurs. Similar to Savoy Leaved or Bloomsdale but somewhat smoother in leaf and inclined to bolt to seed earlier.
- SAVOY BLOOMSDALE LONG STANDING** 42 Days  
Similar to the older type but with a thicker, more round and lighter colored leaf. Very slow to bolt to seed.
- VIKING** 44 Days  
This variety is excellent for market gardens and canning. Plant large, spreading, vigorous, long standing and heavily productive. Leaves very large, thick, dark green.
- VIROFLAY OR THICK LEAF** 43 Days  
Grows very rapidly forming a cluster of large, very thick, slightly wrinkled leaves of fine color and quality. Recommended for market gardeners.

## SQUASH—SUMMER VARIETIES

**CULTURE.** The directions for the planting of Cucumbers can be followed with slight modifications for Squash or Cymling. Plant the Summer Squash in hills 4 feet apart and use before mature. Plant the Winter Squash in hills 6 to 8 feet apart; handle without bruising and store in a dry, moderately warm place for winter. Plant the seed generously and thin to 2 or 3 plants to a hill. One ounce of seed plants 25 hills and 2 to 4 pounds plants an acre. The Squash is recommended either for the table or the feed lot. Number of days given is from planting to ripe fruit.

- CASERTA** 50 Days  
A very early, bush type Cocozelle. Very prolific, leaves heavily cut. All America Selection G.M. 1949. Mature fruits nearly cylindrical, but slightly enlarged near blossom end, 15 inches long, 4 to 5 inches in diameter. Color, dull, very dark green striped on a light glossy green. Harvest when young. Flesh, yellowish white, thick, fine, well flavored.
- GIANT SUMMER CROOKNECK** 56 Days  
This strain is a great improvement on the old variety of Crookneck. It is larger and better in every way.
- SUMMER CROOKNECK** 50 Days  
A standard early and productive summer variety. Fruits about a foot long, moderately warted and of a bright yellow color.
- EARLY WHITE BUSH, SCALLOPED** 55 Days  
Also called Cymling and White Patty Pan. It is the most popular of the white summer types of squash. The fruits are rather small, quite flat with ridged or scalloped edges. The vines are extremely prolific and disease resisting. Used when but a few days old they are very tender.

## SQUASH — SUMMER VARIETIES — Continued

### EARLY YELLOW BUSH, SCALLOPED

55 Days

It is similar in all respects to the Early White Bush except in the color of the skin, which is a golden yellow. It is not quite so prolific, nor is it as widely used.

### GIANT STRAIGHTNECK

55 Days

A distinct improvement on the Crookneck strain as it packs to better advantage for shipping. Popular with market gardeners and shippers. Plant is of bush type; fruits thicknecked, heavily warted, straight, lemon yellow in color; flesh thick, light yellow.

### SWEET POTATO OR DELICATA

55 Days

Early and very prolific; of oblong shape. Ground color orange-yellow splashed and striped with very dark green. Although of small size the squashes are very solid and heavy while the quality is rich and dry.

### ITALIAN VEGETABLE MARROW

60 Days

A distinct variety of squash of bush form. Fruit grows to a length of about 20 or more inches, with a diameter of 3 to 4 inches; skin smooth, of a dark green color, marbled with yellow or with paler green. All through Italy, where the squash is grown, the fruits are eaten when quite young, sometimes even before the flower has opened.

### YANKEE HYBRID

50 Days

Originated by the Conn. Agricultural Experiment Station; a single cross hybrid, resulting from carefully controlled crossing of two inbreds. The Conn. Station has shown that it pays gardeners to use this hybrid where they depend on most of their returns from the earliest market. All America B. M. 1941. Fruit, similar in all respects to Early Prolific Straightneck. Flesh, white, fine texture and flavor.

### BLACK ZUCCHINI

62 Days

Developed from Italian Marrow. Fruits are cylindrical, long, smooth, dark green-black; flesh greenish white at eating stage and of good flavor. Length about 13 inches; diameter 9 inches.

### ZUCHINI, SMALL SHORT COCOZELLA

60 Days

Fruits weigh 3 to 4 pounds, nearly cylindrical, straight. Color medium green mottled with cream-grey and lighter green stripes; flesh very firm and of delicate flavor. Plant is of bush type.

## SQUASH—WINTER VARIETIES

### ACORN, DES MOINES OR TABLE QUEEN

90 Days

A trailing variety producing acorn-shaped fruit with a thin, distinctly ribbed, dark green shell; 6 inches long by 4½ inches in diameter. Flesh light yellow and bakes well.

### JUMBO OR MAMMOTH TABLE QUEEN

95 Days

Fruits are 7-8 inches long and 5 to 5½ inches in diameter, weighing 2 to 3 lbs. Flesh is medium thick, pale orange, tender, dry, sweet, flavorful; good keeper.

### GOLDEN TABLE QUEEN

75 Days

An attractive squash, deep orange in color with semi-bush plants, therefore it can be planted same as bush squash. It is uniform and prolific—our only criticism is that the flesh is somewhat thin, but the quality is equal to the green strain. Size, 5x4.

## SQUASH — WINTER VARIETIES — Continued

- BANANA, BLUE** 110 Days  
Fruits are 18-20 inches long, weigh 10-12 lbs.; skin medium hard and smooth, slate blue-green. Flesh is medium thick, orange-yellow, very fine textured; stores well.
- BANANA, PINK** 105 Days  
Similar to regular Banana but exterior deep pink. Fruits average 15 in. in length, 6½ in. diameter, straight, pointed at blossom end, rounded at stem end. Flesh thick with small seed cavity.
- BOSTON MARROW** 100 Days  
Particularly valuable for canning. Fruits large, commonly 10 to 12 inches through, almost spherical, usually a trifle flattened at blossom end; skin slightly roughened, rich orange; rind hard and brittle; flesh thick, salmon-yellow.
- BUTTERCUP** 100 Days  
A fine new squash of excellent quality, 4½ x 6½ inches in size. The outside color is green with stripes and spots of grey. There is a heart-shaped protuberance at the blossom end. The dry, thick flesh, texture and keeping qualities of this squash are excellent.
- BUTTERNUT** 90 Days  
Fruits 8" to 10" long, bulbous at blossom end. Rind thin and tough, creamy yellow in color. Flesh very thick, fine grained, nutty and of excellent quality.
- DELICIOUS** 105 Days  
Fruits broad top-shaped, commonly 7 to 8 inches long; skin very dark green, fairly smooth; rind thin but hard; flesh extremely thick, bright yellow, fine grained and dry, without fiber and of highest quality.
- GOLDEN DELICIOUS** 105 Days  
Valuable for canners because of the high starch content of its flesh and the bright red-orange color of the exterior. In shape, size and season it is practically the same as the original Delicious.
- HUBBARD** 100 Days  
The standard winter squash. Fruits large, heavy and moderately warted, shell dark bronze-green showing more or less light green markings toward blossom end; flesh bright orange-yellow, fine grained, thick and dry.
- BLUE HUBBARD** 110 Days  
This excellent squash of the Hubbard type is light blue in color with hard shell and thick, fine grained flesh, which is very tender and by far the best flavored of the winter squashes. This variety is very popular in the east.
- RED OR GOLDEN HUBBARD** 100 Days  
This is a very distinct sort of the shape and general character of the Hubbard but a little smaller; color rich orange-red instead of the dark olive-green.
- WARTY HUBBARD** 100 Days  
Somewhat larger in size than the well known Hubbard and of equal quality but is more heavily warted and the shell is very dark green, almost black, in color. Our stock of this variety is exceptionally true.
- UCONN** 80 Days  
This is the bush form of Acorn or Table Queen. It takes up much less room than the vining type but yields quite as large a crop of fruits equal in size and equally delicious.

## TOMATO

**CULTURE.** This crop responds well to fertilizer and soil should be enriched with complete fertilizer before planting. The Tomato requires one hundred days or more to mature from seed. As Tomatoes are killed by other than light frost, early Tomatoes should be started in hotbeds 2 months before they may be transplanted out-of-doors. Three weeks later these plants may be potted or given a space of 4 by 4 inches in the hotbeds. Before setting in the field, the plants should be gradually exposed to the outside conditions and the quantity of water given them decreased. Transplant on a cloudy day if possible, and water freely. Nitrate of soda may be given each plant at this time with profit. A space of 4 by 4 feet should be given each plant in the field or more for robust varieties, except that where they are carefully pruned and trained, which is unnecessary, they may be planted as close as 2 by 2 feet. One ounce of seed gives 2,000 plants. The number of days given is from setting plants to ripe fruit. Tomatoes may also be seeded direct in April. Drill seed about an inch apart in the row and plant a little Cabbage seed to mark rows for early cultivation. Thin after frost danger.

- BEEFSTEAK OR CRIMSON CUSHION** 90 Days  
A wilt resistant, late, main crop variety for home and market garden use. Plant open in habit of growth, heavy, rather light green, vigorous. Fruits large, flat, scarlet, rather smooth.
- BISON** 65 Days  
Small, spreading, open growth with few leaves, 2 feet tall. Fruits medium small, 2 inches in diameter, flattened top globe. Bright red color; thin, tender skin, thin side wall, quite large seed cells, very juicy. Fruits set mostly at one time and are bunched around base of vine.
- BONNY BEST** 75 Days  
Vines strong and vigorous; fruit deep scarlet, ripening to stem; flesh firm. A productive and very desirable early and main crop variety.
- BOUNTY OR VICTOR** 65 Days  
Fruits are scarlet, medium small, smooth, uniformly globular, shallow, small core, cracks under extreme variations of dry and wet weather. Very uniform in ripening. Vines are very small.
- BREAK O' DAY** 71 Days  
A wilt resistant tomato that is nearly as early as Earliana and as productive as Marglobe. Its fruits are large, smooth, red and globular, very similar to Marglobe but usually larger. Used whole for salads or stuffed.
- BRIMMER** 91 Days  
Similar to Ponderosa but larger, a single specimen often weighing 3 pounds. Fruit is solid and meaty, massive in size, delicious flavor, rich dark red color, and almost seedless.
- CHALK'S EARLY JEWEL** 76 Days  
We consider this one of the very best early tomatoes yet introduced. Vines vigorous and very productive. Fruit deep scarlet-red.
- DWARF CHAMPION** 87 Days  
A purplish pink variety forming a strong, erect, bushy plant 2 feet high. Often sold as a tree tomato. Fruit smooth, medium sized, fairly solid and of good flavor.
- EARLIANA** 65 Days  
A very popular early home garden variety. Fruits flattened, medium in size, deep-scarlet red, firm and fairly smooth.
- EARLY BALTIMORE** 73 Days  
Illinois University selection of Marglobe, thriving on all soils; smaller fruit, solid bright color, heavier yielder.
- EARLY DETROIT** 82 Days  
Vines vigorous and productive. Fruit round and nearly globe-shaped, firm and purplish-pink in color. A splendid second early variety.

## TOMATO — Continued

- FIRESTEEL** 65 Days  
Vines small to medium. Fruit scarlet red, medium size, smooth, almost globular. Small core very firm and fleshy.
- GARDEN STATE** 84 Days  
Developed by Campbell Soup Company from crosses involving Pritchard, Marvel and Pink Topper. Plant vigorous, partially resistant to Fusarium wilt and late blight; fruits slightly globe shape, attractive in color and size, thick-walled and mild flavored.
- GOLDEN QUEEN** 82 Days  
Fruits large and smooth of a beautiful golden yellow, sometimes with a slight blush of red, as smooth and well shaped as the best of the red varieties and of superior flavor.
- GREATER BALTIMORE** 83 Days  
Particularly valuable for canning; heavily productive. Fruits deep scarlet-red, large, deep but flat, smooth, very firm and solid.
- GROTHEN'S GLOBE** 73 Days  
Early maturing, wilt resistant variety which is popular in some sections for shipping. Similar to Break o' Day, but the fruits are of deeper scarlet and are free from objectionable yellow about the stem end.
- GULF STATE MARKET** 81 Days  
The best of the early purple fruited varieties. In season with Early Detroit while fruit is larger, smoother, more globe-shaped, very solid, free from cracking and productive.
- JOHN BAER** 73 Days  
An early red tomato similar to Chalk's Early Jewel; very productive.
- JUBILEE** 72 Days  
Fruits are bright, golden orange, deep globular, firm; the orange colored flesh is mild but of definite flavor and really delicious. Makes delicious juice. Ready in about 72 days after plants are set out in the garden.
- JUNE PINK** 67 Days  
Vine makes a very scant leaf growth 2 to 2½ feet tall. Fruit averages 3 inches in diameter, slightly flattened tip and bottom with smooth, thin, tough skin and medium thick wall with five large seed cells. Earliest of the pinks.
- LIVINGSTON'S GLOBE** 82 Days  
Of beautiful globe shape with quite a percentage of elongated (stem to blossom) fruits, which permits a greater number of slices being taken than with flat fruited sorts. Color a beautiful, glossy rose tinged purple.
- MARGLOBE** 80 Days  
Resistant to nail-head rust and fusarium wilt. Large, perfect globe-shaped fruits of a beautiful scarlet color. Its spreading habit of growth enables it to bear in great abundance.
- IMPROVED STONE** 84 Days  
Vines vigorous and productive; fruits large, smooth, solid and deep red in color, very heavy. This is a favorite canners' variety.
- NORTON, WILT RESISTANT** 87 Days  
Similar to Stone but bred for its resistance to fusarium wilt; possibly a trifle later than Stone.
- OX HEART** 90 Days  
One of the largest of all tomatoes. Purple fruits often weigh up to 1½ pounds. Of distinct "ox heart" form, very solid, with few seed cells.
- PAN AMERICA** 73 Days  
Vines similar to Marglobe but smaller leaved. Resistant to Fusarium wilt. Fruits bright red, deep globe shape and of medium size.

## TOMATO—Continued

- PONDEROSA** 87 Days  
A purplish-pink tomato of largest size. Vine vigorous and very productive; fruit very solid, fairly smooth and of good quality.
- PRITCHARD OR SCARLET TOPPER** 76 Days  
Wilt resistant. Fruits large, smooth, globular, solid with thick walls and cross sections; color deep scarlet. Splendid home and market garden variety; excellent for shipping.
- RUTGERS** 72 Days  
Introduced by the New Jersey Agricultural Experiment Station. Fruits medium to large, similar in shape to Marglobe but slightly more flattened. Highly recommended as a second early maturing variety for canning and tomato juice.
- SAN MARZANO**  
An Italian variety highly prized for manufacturing into paste and powder. Fruits distinct,  $1\frac{1}{4}$  inches broad by  $2\frac{1}{2}$  to 3 inches long, flat sided and rounded at ends. Color bright scarlet; flesh thick, interior devoid of juicy pulp, and seeds comparatively few. Heavily productive in the northern states and in California.
- SIoux** 70 Days  
Developed at Nebraska Experiment Station. Plant relatively open with finely divided leaves. Fruit red, medium sized, almost globular, thick walled and practically free from hard core, juicy with good flavor, ripens uniformly.
- STOKESDALE** 72 Days  
An attractive second early variety. Fruits smooth, almost globe shaped; large pulpy core, solid flesh, free from cracking, good red color. Vines medium sized, coarse foliage which gives fair coverage, medium green, productive.
- VALIANT** 65 Days  
Plant is vigorous, medium in size and open. Fruits large for an early variety, globe shaped and of bright red color. Good yielder.
- WISCONSIN No. 55** 75 Days  
Introduced by the College of Agriculture, University of Wisconsin. Plant vigorous with some resistance to early blight and blossom end rot, open but fairly leafy. Fruits medium large, slightly flattened, of good scarlet color.
- YELLOW OR GOLDEN PONDEROSA** 90 Days  
Vines large and heavy; fruits very large, flat, deep yellow. A fine home garden variety.

## TOMATO—SMALL FRUITED VARIETIES

- YELLOW HUSK OR GROUND CHERRY** 85 Days  
Vine makes a spreading open growth, light green in color; fruit is small,  $\frac{3}{4}$  inch, round, yellow in color, and is enclosed in a thin, paper-like husk that loosens as fruit ripens. Used for pies and preserves.
- RED CHERRY** 75 Days  
Heavy growth, small leaf, heavy leaf growth, 5-foot vine. Fruits small,  $\frac{1}{2}$  to  $\frac{3}{4}$  inch, globe shape, bright red. Grows in clusters and is a heavy producer.
- RED PLUM** 73 Days  
A red fruited sort, resembling a plum in shape and size. Used as a novelty and for preserves.
- RED PEAR** 75 Days  
Fruits 2 inches long; pear-formed.
- YELLOW PEAR** 75 Days  
Like the Red Pear in all ways except color, which is a bright yellow.
- YELLOW PLUM** 75 Days  
Like the Red Plum in all ways except color, which is a bright yellow.

## TURNIP

**CULTURE.** While the main crop of Turnips is planted in July, more Turnips should be grown in early spring. Seed may be broadcast on the few soils freed of weeds but it is more advisable to sow in 1- or 2-ft. drills, cover less than one-half inch and thin to stand 6 inches apart in the row. Use 1 ounce of seed to 100 feet of row and 2 pounds to the acre. The Turnip requires one-half more seed when broadcast than in drills and a salad Turnip requires one-half more seed than the Turnip sown as a root crop.

- AMBER GLOBE** 75 Days  
One of the best varieties for a field crop for stock. Flesh yellow, fine grained and sweet; color of skin yellow with green top. Hardy, keeps well; a good cropper. Very popular in the south.
- COW HORN OR LONG WHITE** 68 Days  
This variety is pure white except for a little shade of green at the top. It is carrot-like in form, growing nearly half out of the ground and slightly crooked.
- EARLY SNOWBALL** 43 Days  
Medium large, light green tops. Roots are 3 to 4 inches, perfect globe shape; a fine tap root; pure white colored skin and flesh. Flesh fine grained and sweet. Good table type.
- GOLDEN BALL OR ORANGE JELLY** 60 Days  
Undoubtedly one of the most delicate and sweetest yellow fleshed turnips. Not of a large size but firm, hard and of most excellent flavor. Keeps well and is superior as a table variety.
- EXTRA EARLY PURPLE MILAN** 40 Days  
Tops medium, upright growing, strap leaved; roots 3 inches, white with purple top, very flat; flesh sweet and crisp. Recommended for early spring planting.
- EXTRA EARLY WHITE MILAN** 40 Days  
Tops small and upright; roots 3 inches, pure white, very flat; flesh sweet and crisp. Used for forcing or early spring planting outdoors. Very early.
- POMERANEAN OR LARGE WHITE GLOBE** 75 Days  
This is one of the most productive kinds and in good, rich soil roots will frequently grow to 10 pounds in weight. It is of perfect globe shape; skin white and smooth; leaves large and dark green.
- PURPLE TOP STRAP LEAF** 45 Days  
Tops medium large, upright, strap leaved. Roots 3 to 4 inches, flat, white with purple top. Flesh white, fine grained and sweet. Early variety.
- PURPLE TOP WHITE GLOBE** 60 Days  
An early, perfectly globe-shaped variety of good size and very attractive appearance. The roots are large, white with purple top. The flesh is white, fine grained and tender. They are best for table when about 3 inches in diameter but can be grown much larger for stock feeding. Best variety for market gardeners.
- SEVEN TOP FOR TURNIP GREEN**  
Standard, extremely hardy foliage turnip for table and forage use. Root woody and inedible; crown sends up numerous leafy shoots which are excellent for greens and for stock to graze on.
- SHOGON OR JAPANESE FOLIAGE**  
Very popular in the south. Quick growing. Tops 18 to 20 inches tall, bright green, strap leaved; roots globular, smooth, white and of excellent quality. Louse proof.
- SOUTHERN PRIZE**  
Foliage type with tops much like Seven Top and used for same purpose. Makes a large, top-shaped root of poor quality.
- WHITE EGG** 50 Days  
Top medium size, upright; roots white, egg-shaped with small tap root, 2½ to 3 inches. Good home garden variety.

## TURNIP — Continued

- WHITE FLAT DUTCH, STRAP LEAF** 42 Days  
Tops small, light green, strap leaved; roots white, 3 to 4 inches, flat, fine grained and sweet. Excellent for early planting.
- YELLOW ABERDEEN, PURPLE TOP** 75 Days  
Very hardy and productive, a good keeper; globe-shaped. Color pale yellow with purple top. Very firm in texture and closely resembling the Rutabaga in good keeping qualities. Good either for table or stock.
- YELLOW GLOBE** 75 Days  
Tops large, upright; roots 4 to 5 inches, globe-shaped, pale yellow; flesh firm, pale yellow.

## RUTABAGA

**CULTURE.** Rutabaga, or Swedish Turnip, with their superior keeping qualities, had best be drilled a month earlier than other turnips, given 18 to 30-inch rows and thinned to stand six to twelve inches apart in the row.

- AMERICAN PURPLE TOP, IMPROVED** 90 Days  
Tops large, upright; roots 5 to 6 inches, yellow with purple top; flesh pale yellow, fine grained, sweet and tender.
- GOLDEN NECKLESS** 85 Days  
Resembles American Purple Top but with medium top and very small neck. Roots flattened globe in shape, yellow with purple top; flesh yellow, firm and of excellent quality.
- MACOMBER** 85 Days  
A white-fleshed variety of superior table quality. Roots nearly round, almost neckless, white with greenish purple top. Well adapted to New England.
- MONARCH OR TANKARD** 90 Days  
This is a yellow fleshed sort having very large tankard-shaped roots with relatively small necks and tops. Color purplish-crimson above ground, yellow below; flesh fine grained, very solid and of the best flavor.
- SWEET GERMAN** 90 Days  
Roots 4 to 5 inches, white with green tinted top, globe-shaped; flesh pure white, fine grained and sweet. Good for table use or stock feed.

## WATERMELON

**CULTURE.** For watermelon, follow our cultural directions for cucumbers, except that it is necessary to give the watermelon a space of eight to ten feet between hills, and thin the plants to two to the hill. One ounce plants twenty-five hills and three pounds of seed plant an acre. Number of days given is from planting to ripe fruit.

- BLACKLEE** 95 Days  
Developed by M. N. Walker of the Florida Experiment Station from Leesburg x Hawkesbury. Very resistant to Fusarium wilt. Fruits of Tom Watson type but somewhat thicker and shorter; rind dark green, thin but tough; flesh bright red, of good texture and flavor. Seeds black, medium size. Weight 30 pounds.
- CITRON, RED SEEDED** 95 Days  
For preserves and candied fruit. Round green fruits, distinctly marked with irregular stripes. Flesh white, very firm and solid. Not good to eat uncooked.
- CLETEX** 90 Days  
Similar in size and shape to Tom Watson but with dark green irregular mottling on lighter green background of rind. Flesh red, rind tough enough for shipping. Seeds brown. Weight 30 pounds.



## WATERMELON — Continued

- COLE'S EARLY OR HARRIS EARLY** 80 Days  
The best of the extra early sorts. Fruits slightly oval with irregular mottled stripes of light and dark green. Flesh bright red, sweet and tender. A desirable variety where the season is short. It is hardy, productive and the largest of the early kinds.
- CONGO** 90 Days  
An Anthracnose resistant variety developed to permit normal development in the Gulf Coast and Southeastern states where Anthracnose frequently kills the vines preventing normal development of the melons. Yields well and has nice marketable fruits. A good shipper, not resistant to wilt and mildew. All America Selection B.M. 1949.
- DIXIE QUEEN** 85 Days  
Fruit round or blunt oblong, grey with prominent dark green stripes. Flesh richly colored, firm, sweet and juicy, with very small white seeds. Good shipper.
- DUDE CREEK** 95 Days  
Fruits large and cylindrical, rind thin and tender with irregular stripes of dark and pale green. Flesh bright red, sweet and of good quality. Popular in the South for local market and home garden.
- EARLY KANSAS OR RED RUSSIAN** 80 Days  
Large fruits, nearly round, bright green with broad wavy stripes of lighter green. Flesh bright red. Thin, tough rind. Brownish seed turning to buff when dry.
- FLORIDA FAVORITE** 88 Days  
A very large, long melon, mottled dark green with stripes of lighter shade. Rind thin but firm; flesh very bright, deep red, very sweet, tender and of excellent flavor. Finest flavored melon for home garden.
- FLORIDA GIANT, Black Diamond or Cannon Ball** 95 Days  
Fruits dark green, nearly round; flesh firm and red; of excellent quality. Ships well and is one of the best all-purpose varieties. Seed with heavy dark brown flecking on tan ground. Weight about 40 lbs.
- GARRISON** 90 Days  
Similar to Dude Creek but slightly smaller, shorter and with white seeds.
- GOLDEN HONEY (Yellow Meated)** 90 Days  
The best of the yellow fleshed melons. It is oblong in shape and the average weight is 20 pounds. The rind is dark green with irregular stripes of darker green.
- GRAYSTONE** 90 Days  
Flesh crisp, red and exceptionally sweet. Of Stone Mountain type but with thin, tough mottled gray-green rind. Seed white. Weight about 35 lbs.
- GYPSY OR GEORGIA RATTLESNAKE** 94 Days  
Fruit cylindrical, square at the ends, smooth and distinctly striped and mottled light and dark green. Flesh bright scarlet and very sweet.
- HALBERT HONEY** 85 Days  
Fruit long, 12 x 18 inches, slightly tapered, dark green with lighter green veins or net. Flesh rich, bright red, fine grained, sweet and well flavored. Skin is thin and crisp; seed white with black or brown tip and rim. An excellent garden type.
- HAWKESBURY** 85 Days  
A wilt resistant shipping variety. Of the Irish Grey type; long and sloping toward either end. Flesh dark pink, of good quality. Seeds brownish black. Weight about 35 lbs.
- HUNGARIAN HONEY** 87 Days  
An early sort, fine for northern latitudes; perfectly round with brilliant red flesh.

## WATERMELON — Continued

- LONG LIGHT ICING OR GREY MONARCH** 85 Days  
Fruit long and slender, 8 x 14 inches, light green with fine net of greyish green. Flesh bright red, firm and crisp, well flavored and sweet. The skin is thin and quite brittle; seed small and white. Good garden and home market type.
- IRISH GREY** 90 Days  
Fruit is long oval, blunt at both ends, light greyish green color. Flesh is bright red, sweet, firm and very well flavored, with few seeds. The skin is thin but quite tough; seed white.
- KING AND QUEEN, WINTER** 85 Days  
Skin is light cream with faint stripes of light green. Prolific and of excellent quality. Properly stored it will remain edible for several months. Good shipper.
- KLECKLEY'S SWEETS OR MONTE CRISTO** 86 Days  
Unsurpassed for home use or near markets. Fruit medium to large size, oblong, tapering slightly towards the stem end, dark green, often showing fine russetting. Flesh very bright, rich red, exceedingly sweet, crisp and tender.
- KLECKLEY'S SWEETS WHITE SEEDED** 88 Days  
A very valuable melon, wonderfully productive; long, thick, and uniform in size. Color of rind dark bluish green. Flesh sparkling red, sweet and entirely free from hard centers.
- KLECKLEY'S NO. 6** 90 Days  
A wilt resistant variety of high quality, same type as Kleckley's Sweet. Rind thin but tough, flesh free from veins or coarse strings.
- KLONDIKE, IMPROVED BLACK SEEDED** 83 Days  
For genuine merit, not surpassed by any other kind. Rind dark green with attractive bright red flesh. Seeds small and black.
- LEESBURG, W.R.** 90 Days  
A wilt resistant Kleckley's Sweets developed by the Florida Experiment Station. Fruits similar to Kleckley's Sweets but shorter and blocky ended. Rind dark green, flesh red, fine textured, very sweet. Seed White.
- MISSOURI QUEEN** 85 Days  
A disease resistant productive variety developed by the Missouri College of Agriculture. Fruit short, oval, 13 inches long, 10 to 11 inches in diameter. Color whitish light green with dark green stripes. Rind smooth, relatively thin, tough enough for easy handling and good shipping. Flesh rosy red, fiberless, fine grained, sweet. Seed, small white with brown tips.
- MOUNTAIN HOOSIER** 90 Days  
Fruits very large, round oval with blunt ends; rind tough, dark green. Flesh bright red and sweet, of fine eating quality. Seeds white, edged with black. Weight 50 pounds.
- NORTHERN SWEET** 75 Days  
Fruits small, nearly round, medium green with dark green stripes; rind very thin. Flesh very deep red, crisp, sweet, and of good flavor. Seeds light brown with darker edge. Fruits weigh from 10 to 12 lbs.
- PEERLESS OR ICE CREAM** 84 Days  
Fruits short, oblong, medium green, with fine veining; rind thin and tender. Flesh bright red and very sweet; seed white.
- STONE MOUNTAIN** 88 Days  
A very large, medium dark green, round melon of excellent quality. Flesh highly colored, very solid, with fewer seeds than most watermelons. It has gained a well deserved popularity in the south where the fruits frequently attain a weight of 60 to 80 pounds. The rind is tough enough to stand handling for nearby markets but will not stand long distance shipping.
- STONE MOUNTAIN NO. 5 (Wilt Resistant)** 85 Days  
Highly resistant to Fusarium Wilt. Fruit is similar to regular Stone Mountain but runs a little smaller in size. Rind thick, and flesh bright pink. Seeds white spotted with black.

## WATERMELON — Continued

- STRIPED KLONDYKE BLUE RIBBON** 80 Days  
Fruits medium sized thick cylinder about 20 lbs., irregular green striped on light green background, rind moderately tough, good home garden variety. Flesh dark red, fine quality, crisp and sweet.
- SWEETHEART** 89 Days  
This melon is large, handsome, heavy and productive. The shape is oval and the color mottled light to a very light green. Flesh bright red, solid but tender and very sweet.
- TOM WATSON** 91 Days  
A large melon similar in shape and splendid quality to Monte Cristo but averaging larger in size and with a tougher rind, making it especially adapted to shipping. The rind is dark green with distinct, fine veining; flesh is rich red, sweet and tender. One of the best shipping melons.
- WILL ROGERS** 90 Days  
A large-round oval melon. Rind dark green, flesh bright red of excellent quality.
- WINONA** 95 Days  
Resembles a long type of Florida Giant. Fruits large, short cylindrical, blunt-ended, with tough, dark green rind. Flesh bright red, solid and sweet. Seeds black. Weight 40 pounds.

## ONION SETS

We have grown Onion Sets for over 60 years and the knowledge gained in growing, storing, grading and shipping over this length of time assures our customers a superior product.

- EBENEZER**  
A yellow variety of great merit. A heavy yielder and good keeping Onion. Does not run to seed readily.
- GOLDEN GLOBE—SEMI-BOTTLE ONION**  
A rich, golden yellow variety producing oblong-globe bulbs of excellent keeping quality.
- RED**  
Grown from the Red Wethersfield variety and will produce marketable onions several weeks earlier than seed. Also very desirable for green onions.
- WHITE**  
Grown from White Portugal seed. White sets produce the finest early green onions and no garden should be without them.
- BROWN**  
Grown from Australian Brown seed. Excellent keepers as Sets. Are very hard and solid.
- WHITE PEARL**  
This is the early waxy silvery white Onion which is used for fall planting only. It produces an onion that in mildness of flavor is probably not surpassed. For fall planting only.
- YELLOW BERMUDA**  
These sets produce the pale yellow, slightly flattened Onion, with white flesh, at times slightly suffused with pink. For fall planting only.
- CRYSTAL WHITE WAX**  
Produces large pure white flattened Onion of mild flavor. For fall planting only.
- YELLOW SHALLOTS OR MULTIPLIERS**  
The clumps are divided and they multiply very abundantly. Are grown largely for flavoring.
- YELLOW POTATO**  
The old original English Multiplier.
- WINTER TOP, EGYPTIAN OR PERENNIAL**  
These are very hardy; they need no protection during the winter and will continue for many years to yield an abundant supply of green onions without replanting.

# REFERENCE TABLES

## Quantity of Seeds Requisite to Produce a Given Number of Plants and Sow an Acre

Quantity per Acre		Quantity per Acre	
Artichoke, 1 oz. to 500 plants.....	6 oz.	Hemp .....	½ bu.
Asparagus, 1 oz. to 800 plants.....	4 lbs.	Horse-Radish Roots .....	10,000 to 15,000
Asparagus Roots .....	1000 to 7250	Kale, 1 oz. to 5,000 plants.....	4 lbs.
Barley .....	2 bu.	Kohl-Rabi, 1/3 oz. to 100 ft. of drill.....	4 lbs.
Beans, Dwarf, 1 lb. to 100 ft. of drill....	60 lbs.	Leek, 1 oz. to 100 ft. of drill.....	4 lbs.
Beans, Pole, ½ lb. to 100 hills.....	30 lbs.	Lettuce, ¼ oz. to 100 ft. of drill.....	3 lbs.
Beet, Garden, 1 oz. to 100 ft. of drill....	7 lbs.	Melon, Musk, 1 oz. to 100 hills.....	3 lbs.
Beet, Mangel, 1 oz. to 100 ft. of drill....	5 lbs.	Melon, Water, 4 oz. to 100 hills.....	3 lbs.
Broccoli, 1 oz. to 5000 plants.....	2 oz.	Nasturtium, 2 oz. to 100 ft. of drill.....	15 lbs.
Brussels Sprouts, 1 oz. to 5000 plants....	3 oz.	Okra, 2 oz. to 100 ft. of drill.....	10 lbs.
Buckwheat .....	1 bu.	Onion Seed, 1/3 oz. to 100 ft. of drill....	4 to 5 lbs.
Cabbage, 1 oz. to 4000 plants.....	2 oz.	Onion Seed for sets.....	40 to 80 lbs.
Carrot, 1 oz. to 100 ft. of drill.....	3 to 4 lbs.	Onion Sets, 1 qt. to 40 ft. of drill.....	8 bu.
Cauliflower, 1 oz. to 2500 plants.....	4 to 6 oz.	Parsnip, ½ oz. to 100 ft. of drill.....	3 lbs.
Celery, 1 oz. to 6000 plants.....	4 oz.	Parsley, ¼ oz. to 100 ft. of drill.....	3 lbs.
Chicory .....	4 lbs.	Peas, Garden, 1 lb. to 100 ft. of drill....	1 to 3 bu.
Clover, Alsike and White Dutch.....	6 lbs.	Peas, Field .....	2 bu.
Clover, Crimson .....	10 to 15 lbs.	Pepper, 1 oz. to 1500 plants.....	4 oz.
Clover, Large Red and Medium.....	8 to 12 lbs.	Pumpkin, 4 oz. to 100 hills.....	3 to 4 lbs.
Collards, 1 oz. to 5000 plants.....	4 oz.	Radish, 2/3 oz. to 100 ft. of drill.....	8 to 12 lbs.
Corn, Sweet, 1 pound to 200 hills.....	7 to 10 lbs.	Rye .....	1½ bu.
Cress, ¾ oz. to 100 ft. of drill.....	12 lbs.	Salsify, ¾ oz. to 100 ft. of drill.....	8 lbs.
Cucumber, 1 oz. to 100 hills.....	1 to 3 lbs.	Spinach, 1 oz. to 100 ft. of drill.....	10 to 15 lbs.
Egg Plant, 1 oz. to 2000 plants.....	4 oz.	Summer Savory .....	¾ lb.
Endive, 1 oz. to 100 ft. of drill.....	3 to 5 lbs.	Sunflower .....	8 lbs.
Grass, Blue, Kentucky.....	30 to 40 lbs.	Squash, Summer, 4 oz. to 100 hills.....	2 lbs.
Grass, Hungarian and Millet.....	25 lbs.	Squash, Winter, 8 oz. to 100 hills.....	2 lbs.
Grass, Mixed Lawn.....	100 lbs.	Tomato, 1 oz. to 2000 plants.....	2 oz.
Grass, Red Top, Fancy, Clean.....	8 to 10 lbs.	Tobacco, 1 oz. to 5000 plants.....	2 oz.
Grass, Timothy .....	10 lbs.	Turnip, 1 oz. to 100 ft. of drill.....	2 lbs.
Grass, Orchard, Perennial Rye and Wood Meadow .....	2 bu.	Vetch .....	2 bu.

## MEASUREMENT OF AN ACRE

The following will be found useful in arriving at accuracy in estimating the amount of land in different pieces of ground under cultivation: 5 yards wide by 968 yards long contains 1 acre, as do also the following measurements: 10 yards wide by 484 yards long; 20 yards wide by 242 yards long; 40 yards wide by 121 yards long; 70 yards wide by 69½ yards long; 60 feet wide by 726 feet long; 110 feet wide by 396 feet long; 120 feet wide by 363 feet long; 220 feet wide by 198 feet long; 240 feet wide by 181½ feet long, and 440 feet wide by 99 feet long.

## NUMBER OF PLANTS OR TREES TO THE ACRE AT GIVEN DISTANCES

Dis. Apart	No. Plants	Dis. Apart	No. Plants	Dis. Apart	No. Plants
12x 1 in. ....	522,720	30x16 in. ....	13,068	48x36 in. ....	3,630
12x 3 in. ....	174,240	30x20 in. ....	10,454	48x48 in. ....	2,723
12x12 in. ....	43,560	30x24 in. ....	8,712	60x36 in. ....	2,901
16x 1 in. ....	392,040	30x30 in. ....	6,970	60x48 in. ....	2,178
18x 1 in. ....	348,480	36x 3 in. ....	58,080	60x60 in. ....	1,743
18x 3 in. ....	116,160	36x12 in. ....	14,520	8x 1 ft. ....	5,445
18x12 in. ....	29,040	36x18 in. ....	9,680	8x 3 ft. ....	1,815
18x18 in. ....	19,360	36x24 in. ....	7,260	8x 8 ft. ....	680
20x 1 in. ....	313,635	36x36 in. ....	4,480	10x 1 ft. ....	4,356
20x20 in. ....	15,681	42x12 in. ....	12,446	10x 6 ft. ....	726
24x 1 in. ....	261,360	42x24 in. ....	6,223	10x10 ft. ....	435
24x18 in. ....	15,520	42x36 in. ....	4,148	12x 1 ft. ....	3,630
24x24 in. ....	10,890	48x12 in. ....	10,890	12x 5 ft. ....	736
30x 1 in. ....	209,088	48x18 in. ....	7,790	12x12 ft. ....	302
30x 6 in. ....	34,848	48x24 in. ....	5,445	16x 1 ft. ....	2,722
30x12 in. ....	17,424	48x30 in. ....	4,356	16x16 ft. ....	170





